

# QUALITY+ PERFORMANCE

POLYMERS PRODUCT BROCHURE  
GREATER CHINA 2026

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## SUPEER™ mPE (METALLOCENE POLYETHYLENE)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	7118NJ	1	0.918	Lamination film, freezer bag, liquid pouch, heavy duty bag, industrial liner, agriculture film, stretch hood, surface protective film, silage film	<ul style="list-style-type: none"> <li>• Excellent mechanical properties (dart impact, tear and puncture) and optical properties</li> <li>• Excellent sealability and processability</li> <li>• Superior organoleptic (less odor, less smell, low volatile)</li> </ul>
	7118A	1	0.918		<ul style="list-style-type: none"> <li>• Excellent mechanical properties (dart impact, tear and puncture) and optical properties</li> <li>• Excellent sealability and processability</li> <li>• Superior organoleptic (less odor, less smell, low volatile)</li> <li>• Slip agent and antiblock agent</li> </ul>
	7118LA	1	0.918		<ul style="list-style-type: none"> <li>• Excellent mechanical properties (dart impact, tear and puncture) and optical properties</li> <li>• Excellent sealability and processability</li> <li>• Superior organoleptic (less odor, less smell, low volatile)</li> </ul>
	7158A	1.5	0.918		<ul style="list-style-type: none"> <li>• Excellent mechanical properties (dart impact, tear and puncture) and optical properties</li> <li>• Excellent sealability and processability</li> <li>• Superior organoleptic (less odor, less smell, low volatile)</li> </ul>
	7158LA	1.5	0.918		<ul style="list-style-type: none"> <li>• Excellent mechanical properties (dart impact, tear and puncture) and optical properties</li> <li>• Excellent sealability and processability</li> <li>• Superior organoleptic (less odor, less smell, low volatile)</li> <li>• Slip agent and antiblock agent</li> </ul>
Cast Film	7358TA	3.5	0.918	Stretch wrap film, hygiene film, packaging	<ul style="list-style-type: none"> <li>• Excellent processability and organoleptic (less odor, less smell, low volatile)</li> <li>• Excellent mechanical and optical properties</li> </ul>
	7318	3	0.918		<ul style="list-style-type: none"> <li>• Excellent processability and organoleptic (less odor, less smell, low volatile)</li> <li>• Excellent mechanical and optical properties</li> <li>• TNPP free</li> </ul>
	7358A	3.5	0.918		<ul style="list-style-type: none"> <li>• Excellent processability and organoleptic (less odor, less smell, low volatile)</li> <li>• Excellent mechanical and optical properties</li> <li>• TNPP free</li> </ul>

## COHERE™ POP (POLYOLEFIN PLASTOMER)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	8102(L)	1.0	0.902	Sealing layer of advanced flexible packaging (meat, cheese, dry foods-cookies, chips, cereal, liquid, stand-up pouch and etc)	<ul style="list-style-type: none"> <li>• C8 comonomer</li> <li>• Exceptional heat sealability (low seal initiation temperature, excellent hot tack strength)</li> <li>• Excellent optics and toughness</li> <li>• Superb organoleptic properties (less odor, less smell, low volatile)</li> <li>• Easy processing</li> </ul>
Cast Film	8402	3.5	0.902	<p>Cling layer in stretch wrap film</p> <p>Adhesive layer in surface protect film</p>	<p>Grade name with suffix L contains slip and antiblock agents</p>

## FORTIFY™ POE (POLYOLEFIN ELASTOMER)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Compounding Foaming Extrusion Casting	C0560D	0.5	0.863	<ul style="list-style-type: none"> <li>• PP modification (bumper, interior, panel, door panel)</li> <li>• Footwear</li> <li>• Wire and cable</li> <li>• Grafting for polyamide modification</li> <li>• Photovoltaic encapsulation</li> </ul>	<ul style="list-style-type: none"> <li>• Grade name first letter C: C8 comonomer B: C4 comonomer</li> <li>• Exceptional toughness, flexibility and elasticity</li> <li>• Excellent impact strength and low temperature ductility</li> <li>• Outstanding organoleptic, low volatile and migration</li> <li>• Excellent compatibility with other polyolefin materials</li> <li>• Easy processing</li> <li>• Remarkable electrical properties</li> </ul> <p>Grade name with suffix D contains anticaking agent</p>
	C0570D	0.5	0.868		
	C1055D	1.0	0.857		
	C1070D	1.0	0.868		
	C1085	1.0	0.885		
	B1060	1.1	0.863		
	C3080	3.0	0.880		
	C5070D	5.0	0.868		
	B5060	5.0	0.865		
	C5075DP	5.0	0.873		
	B5075DP	5.0	0.873		
	C13075DP	13	0.873		
	B14075DP	14	0.873		
	C13060D	13	0.863		
	C30070D	30	0.868		

## LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	518NJ	0.5	0.918	Heavy duty shipping sack, agriculture film, liner bag	Excellent mechanical properties (especially dart impact strength and puncture resistance)
	920NT	0.85	0.920	Agriculture film, heavy duty packaging, shrink film	Good mechanical strength and processability
	118WJ	1.0	0.918	Lamination film, food packaging, heavy duty packaging	Good mechanical strength and processability, high slip and antiblock
	118NJ	1.0	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Good mechanical strength and processability, no slip and antiblock
	119NJ	1.0	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Good mechanical strength and processability, no slip and antiblock
	119ZJ	1.0	0.918	Lamination film, food packaging, heavy duty packaging	Good mechanical strength and processability, medium slip and antiblock
	120WJ	1.0	0.918	High clarity film for food and nonfood packaging	Excellent clarity, contains high slip and antiblock
	122NJ	1.1	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Good mechanical strength and processability, no slip and antiblock
	122WJ	1.1	0.921	Lamination film, food packaging, heavy duty packaging	Good mechanical strength and processability, high slip and antiblock
	218WJ	2.0	0.918	Lamination film, food and nonfood packaging, shopping bag	Good mechanical strength, processability and clarity, contains high slip and antiblock
	218NF	2.0	0.918	Lamination film, food and nonfood packaging, shopping bag	Good processability, no slip and antiblock
	218NJ	2.0	0.918	Lamination film, food and nonfood packaging, shopping bag	No slip and antiblock
	222WF	2.0	0.922	Agriculture film, lamination film, food and nonfood packaging, shopping bag	Good processability, high slip and antiblock

## LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	222WT	2.0	0.922	Agriculture film, lamination film, food and nonfood packaging, shopping bag	Good processability, high slip and antiblock
	218NT	2.0	0.920	Lamination film, food and nonfood packaging, shopping bag	No slip and antiblock
	219NJ	2.0	0.918	Lamination film, food and nonfood packaging, shopping bag	Good processability, no slip and antiblock
	219ZJ	2.0	0.918	Agriculture film, lamination film, food and nonfood packaging, shopping bag	Good processability, medium slip and antiblock
	222WJ	2.0	0.921	Lamination film, food and nonfood packaging, shopping bag	Good processability, high slip and antiblock
	222NJ	2.2	0.921	Agriculture film, lamination film, food and nonfood packaging, shopping bag	Good processability, no slip and antiblock
Cast Film	218BJ	2.0	0.918	Cast stretch film for both manual and machine wrap, food cling film	High heat stabilization, excellent processability, good mechanical, optical properties and stretchability
	318BJ	2.8	0.918		
	C2820T	2.8	0.920	Lamination film, tissue film food and nonfood packaging, shopping bag	High heat stabilization, excellent processability, good mechanical, optical properties and stretchability
	319BJ	3.0	0.918	Cast stretch film for both manual and machine wrap, food cling film	High heat stabilization, excellent processability, good mechanical, optical properties and stretchability
	320BJ	3.0	0.922		

## LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Wire and Cable	318CNJ	2.8	0.918	1-step or 2-step silane crosslinking low voltage power cable insulation	Excellent cable extrusion processability and crosslinking properties
	320NT	2.8	0.920	1-step or 2-step silane crosslinking low voltage power cable insulation	Excellent cable extrusion processability and crosslinking properties
Roto-molding	R50035	5.0	0.935	Water tank, toy, road barrier, playground, furniture	Excellent grindability, excellent stiffness and good balance between impact strength and ESCR
	R50035E	5.0	0.935	Water tank, toy, road barrier, playground, furniture	Excellent grindability, excellent stiffness and good balance between impact strength and ESCR, high UV stabilization
	R50035ET	5.0	0.935		
Injection Molding Masterbatch	M200024	20	0.924	Cap and closure (oil bottle, theft-proofing, etc), houseware, color master batch, metal coating, carpet backing	High flow ability with high gloss, low temperature toughness and good stress crack resistance
	M200024T	20	0.924	Color master batch, cap and closure (oil bottle, theft-proofing, etc), houseware	High flow ability with high gloss, low temperature toughness and good stress crack resistance
	MG200024	20	0.924	Color master batch, metal coating, carpet backing	Granules, easy dispersing and mixing with pigments
	MG200024T	20	0.924		
	M500026	50	0.926	Cap and closure, houseware, color master batch	Excellent flow ability, high gloss and toughness, good stress crack resistance
	M550027T	50	0.926		
	MG500026	50	0.926	Color master batch, metal coating, carpet backing	Granules, easy dispersing and mixing with pigments
	MG550027T	50	0.926		
Pipe Extrusion	128CNJ	1.0	0.928	Telecommunication cables, electrical conduits, drip and irrigation pipes	Combining stiffness, toughness and high melt strength with an excellent processability due to its broad molecular weight distribution
	P438J	0.4	0.938	Cylindrical and tape drip irrigation pipes	Excellent processability with a high level of consistency, exceptional mechanical properties and environmental stress crack resistance
	P118	1.0	0.918	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe	Excellent mechanical strength and processability
	P218	2.0	0.918		

## LOW DENSITY POLYETHYLENE (LDPE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	HP0321NN	0.25	0.921	Collation shrink film, greenhouse film, heavy duty bag	Excellent toughness and puncture resistance
	HP0323NN	0.30	0.923		
	HP0322NN	0.33	0.922		
	HP0722NN	0.75	0.922	Medium-duty bag, collation shrink film, lamination film, shopping bag, frozen food bag, bread bag	Good toughness and optical easy processing, HP0823JN / HP0723JN contains slip and antiblock
	HP0724NN	0.75	0.923		
	HP0723JN	0.75	0.923		
	HP0823NN	0.80	0.923		
	HP0823JN	0.80	0.923		
	HP2022JN	2.0	0.922	Thin collation shrink film, lamination film, general purpose film, textile packaging and food bag	Good processability, optical properties, HP2022JN / HP2023JN / HP2025JN contains slip and antiblock
	HP2022NN	2.0	0.922		
	HP2023JN	2.0	0.923		
	HP2023NN	2.0	0.923		
	HP2025JN	2.0	0.923		
	HP2025NN	2.0	0.923		

## LOW DENSITY POLYETHYLENE (LDPE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	HP4025ZN	3.5	0.925	High clarity laundry bag, textile wrapping film, zip-lock bag	Excellent processability, outstanding optical property, good mechanical property, HP4023WN / HP4024WN / HP4025ZN contains slip and antiblock
	HP4023WN	4.0	0.923		
	HP4024WN	4.0	0.923		
	HP4024N	4.0	0.923		
Wire and Cable	HP2019NN	2.0	0.919	Insulation layer for medium and low voltage cables	Outstanding insulation performance, excellent processing performance and mechanical properties
Extrusion Coating	7019EC	7.0	0.919	Paper coating, food lamination film	Excellent processability, auto-clave LDPE
Injection / Masterbatch	HP7022	7.0	0.922	Cap and closure, lid, housewares, color master batch compounding	Good mechanical and impact, high gloss, easy processing
	HP7023	7.0	0.923	Cap and closure, lid, housewares, color master batch compounding	Good mechanical and impact, high gloss, easy processing
	HP20023	20	0.923	Color master batch, compounding, injection	High flow ability, high loading and easy mixing with filler and pigments
Pipe Extrusion	P223	2.0	0.923	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe	Excellent mechanical strength and processability

## LOW DENSITY POLYETHYLENE (LDPE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Foaming	HP2024JDF	2.0	0.924	Automotive, sports and leisure, packaging, building and construction Process: extrusion	Excellent resin consistency, good foam production stability, contains anti block and slip agents
	HP2024NDF	2.0	0.924	Automotive, sports and leisure, packaging, building and construction Process: batch, extrusion with and without crosslinking	Excellent resin consistency, good foam production stability
	HP0824NDF	0.8	0.924		
	HP2022NDF	2.0	0.922	Automotive, sports and leisure, packaging, building and construction Process: batch, extrusion with and without crosslinking	Excellent resin consistency, good foam production stability, high reactivity

## HDPE (HIGH DENSITY POLYETHYLENE) - UNIMODAL

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	FJ00952	0.05 9(MI <sub>21</sub> )	0.952	Bags-on-roll, T-shirt bag, shopping bag	Excellent processability and mechanical strength, TNPP free grade
	FJ01552	0.15 16(MI <sub>21</sub> )	0.952	Millinery and notion bags, deep freeze bags	Excellent processability and drawdown properties, TNPP free grade
	F04660	0.7 46(MI <sub>21</sub> )	0.961	Core-layer in co-extruded film	High stiffness, low gel, excellent water vapor barrier property
Blow Molding	BM1052J	0.05 10(MI <sub>21</sub> )	0.952	Shipping container, industrial container, jerry cans	Excellent ESCR, processability and mechanical strength, TNPP free grade
	B5429	0.3 29(MI <sub>21</sub> )	0.954	Container for household and industrial chemicals	Good processability, ESCR and mechanical properties
	A5530	0.3 29(MI <sub>21</sub> )	0.954	Automotive airtuct	Low odor, low VOC, good processability, super ESCR, FDA compliance
	BM6246LS	0.7 46(MI <sub>21</sub> )	0.961	Bottles for milk, fruit juice and dairy products	Homopolymer with good organoleptic properties, toughness-rigidity balance and good processability that offers opportunity for weight reduction
	B4660	0.7 46(MI <sub>21</sub> )	0.961	Bottles for milk, fruit juice, dairy products and water	Imparting high rigidity, toughness, good processability and lower odour
Raffia	Y10050F	1.0	0.950	Mono filament and tape yarn for fish net, rope, safety net and tarpaulin	Good tensile strength and elongation , good processability
Cap and Closure Injection Molding	CC453	4.0	0.953	Water and beverage bottle caps	Superior organoleptic properties, good processability
	CC455F	4.0	0.955		
	CC860	7.0	0.957		
Injection Molding	M40053S	4.0	0.953	Cap and closure, crate, pail, pallet, logistic box	High stiffness and toughness good ESCR properties contains UV stabilizer
	M40055S	4.0	0.955		
	M40060S	4.0	0.960		Good toughness and rigidity, contains UV stabilizer
	M75056F	7.5	0.956		High toughness, low warpag
	M80063S	8.0	0.964		Good toughness and rigidity, contains UV stabilizer
	M80064 M80064S	8.0	0.964		High toughness and rigidity, low warpage M80064S contains UV stabilizer
	M200050	17	0.950	Houseware, cap and closure, lamitube shoulder, cup	High flow ability, high stiffness
	M200054F	20	0.954		
	M200056	20	0.956		
	M300054	30	0.954		

## HDPE (HIGH DENSITY POLYETHYLENE) - MULTIMODAL

PROCESS	GRADE	MI,g/10min	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	FI0851P	0.05(MI <sub>2</sub> ) 9(MI <sub>21</sub> )	0.951	Bags-on-roll, T-shirt bag, shopping bag	Excellent processability, high film strength and rigidity
	FI0852G	0.05(MI <sub>2</sub> ) 9(MI <sub>21</sub> )	0.952		High film strength and puncture resistance, excellent processability
	FI0750	0.05(MI <sub>2</sub> ) 9(MI <sub>21</sub> )	0.950		
Blow Molding	B5428	0.3(MI <sub>2</sub> ) 28(MI <sub>21</sub> )	0.954	Containers for consumer goods, detergents, toys	Good ESCR, stiffness and processability
	B5628	0.32(MI <sub>2</sub> ) 24(MI <sub>21</sub> )	0.955	Food containers, household containers, chemical containers, especially for disinfectant water packaging	Excellent ESCR, excellent processability, high stiffness and high impact resistance
	B5635G	0.36(MI <sub>2</sub> ) 35(MI <sub>21</sub> )	0.956	Containers for consumer goods, detergents, toys	Good ESCR, stiffness and processability
	B1054	0.45(MI <sub>2</sub> ) 9.5(MI <sub>21</sub> )	0.954	Designed for standard and lightweight jerry cans, food contact approval container	Good ESCR, processability and high stiffness with good impact strength
	B1254	0.14(MI <sub>2</sub> ) 13(MI <sub>21</sub> )	0.955	Chemical containers, food containers	Excellent ESCR, excellent processability, excellent balance between stiffness and toughness
	B5308	8.0(MI <sub>21</sub> )	0.953	Specifically designed for blow molding floaters for floating photovoltaic (PV) panel systems	Excellent mechanical properties, good toughness and stiffness balance, long lifetime and easy blow molding processability, high ESCR
Injection Molding	M50064G	5.0(MI <sub>2</sub> )	0.964	Cap and closure, crate, pail, pallet, logistic box	High stiffness and toughness, good ESCR properties
	M80060G	8.0(MI <sub>2</sub> )	0.960		
Healthcare	PCG5628	24(MI <sub>21</sub> )	0.955	Blow molded of healthcare packaging (bottles and cans)	Biocompatible, features with good stiffness / ESCR balance combined with good process ability
Compression Molding / Injection Molding	CC027C	0.8(MI <sub>2</sub> )	0.953	Carbonated soft drink cap	Excellent ESCR, processability and organoleptic properties
	CC027SL	0.8(MI <sub>2</sub> )	0.953		Contains slip, excellent ESCR, high stiffness, processability and organoleptic properties
	CC458	4.0(MI <sub>2</sub> )	0.958	Water and beverage bottle caps	Good organoleptic properties, good processability and ESCR
Raffia	Y08050G	0.8(MI <sub>2</sub> )	0.950	Mono filament and tape yarn for fish net, rope, safety net and tarpaulin	Good tensile strength and elongation, good processability

## HDPE (HIGH DENSITY POLYETHYLENE) - MULTIMODAL

PROCESS	GRADE	MI,g/10min	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Pipe Extrusion	P6006AD	0.23(MI <sub>3</sub> ) 6.4(MI <sub>21</sub> )	0.959	Pressure pipes for potable water, gas, sewage and other liquids	Black, PE 112 (class MRS 11.2 MPa) specially designed for pressure pipe application, it delivers exceptional processing performance
	P6006	0.23(MI <sub>3</sub> ) 6.2(MI <sub>21</sub> )	0.959	Gas, water, sewage pipes , corrugated and spiral pipes	Black, PE 100, multimodal, pressure pipe and excellent stress crack resistance properties (ESCR)
	P6006LS	0.23(MI <sub>3</sub> ) 6.4(MI <sub>21</sub> )	0.960	Pressure pipes for potable water, gas, sewage, useful for large-diameter pipes and pressure pipes with low standard dimension ratio(SDR)	Black, PE 112, multimodal, delivers exceptional low sag performance, low sagging grade, particularly for large diameter pipes
	P4200RT	0.45(MI <sub>3</sub> ) 9.5(MI <sub>21</sub> )	0.947	Designed to be PE-RT Type II, underfloor heating and multilayer pipes for heating and plumbing	Excellent stress crack resistance, properties (ESCR) combined with good long-term hydrostatic strength, high heat and relatively high extraction stability
	P6006N	0.23(MI <sub>3</sub> ) 6.2(MI <sub>21</sub> )	0.949	Gas, water, sewage pipes and corrugated and spiral pipes	Natural, PE 4710, multimodal and excellent stress crack resistance properties (ESCR)
	P6006NA	0.23(MI <sub>3</sub> ) 6.2(MI <sub>21</sub> )	0.949		Natural, designed to be PE4710, multimodal and excellent stress crack resistance properties (ESCR)
	P5009N	0.30(MI <sub>3</sub> )	0.949	Potable water, storm water, sewage, corrugated, spiral systems and telecommunication ducting	Good processability and mechanical strength
	P4808N	0.23(MI <sub>3</sub> ) 6.5(MI <sub>21</sub> )	0.949	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe segments	Natural, multimodal and excellent stress crack resistance properties (ESCR)
	P4808NA	0.23(MI <sub>3</sub> ) 6.5(MI <sub>21</sub> )	0.949		
	P5305N	4.5(MI <sub>21</sub> )	0.953		
	P5307N	7.0(MI <sub>21</sub> )	0.953		
	P5616N	16(MI <sub>21</sub> )	0.956		
	P952	0.33(MI <sub>3</sub> ) 9.0(MI <sub>21,6</sub> )	0.952	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe	Excellent mechanical strength and processability
	Wire and Cable	WC0548	1.9(MI <sub>3</sub> )	0.948	Bedding and Jacketing for medium and high voltage power and telecommunication cables
WC0348N		1.4(MI <sub>3</sub> )	0.948	Bedding and Jacketing for power and telecommunication cables	Excellent processability and physical properties, high ESCR

## ETHYLENE VINYL ACETATE (EVA)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	VA CONTENT %	TYPICAL APPLICATIONS	CHARACTERISTICS
<b>Foaming Wire and Cable Compounding</b>	EVA2518DF	2.5	18	Foam (Footwear, sports and leisure), wire and cable compounding	Excellent processability, good mechanical property

## POLYOLEFIN COMPOUND

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
<b>Pipe</b>	P1600A	0.43 (MI <sub>2</sub> ) 4.1 (MI <sub>10</sub> ) 28.3 (MI <sub>21</sub> )	0.892	Inner layer for industrial and mining pipes	Natural color, high abrasion resistance, good processability and good compatibility with HDPE pipes

# HOMOPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS	
Raffia Extrusion	5051P	2.2	Woven bag, flexible intermediate bulk container (FIBC), rope and twines, carpet backing, geotextiles and concrete reinforcement	Consistent processability and good mechanical properties	
	500P	3.0			
	5001P	3.0			
	T30S	3.4			
	501SF	3.4	Low denier tapes, woven bags, carpet backing and concrete reinforcement	Good high line speed process ability, good mechanical properties	
	5003PG	3.4			
	5061P	4.0			
	5061PR	4.0			
506P	4.8				
Fiber Extrusion	510P	12	Continuous fiber (CF) and SF	Good processability, spin ability and gas fading resistance	
	518P	25	Bulk continuous fiber (BCF), CF and SF for carpet pile and upholstery		
	511A 5112A	25	Spunbond nonwoven fabric for diaper, filters and hygienic products	Consistent processability, thread line stability, color consistency and gas fading resistance	
	5192A	33			
	519A	35			
	5191AF	35			
	514M14	1400*	Meltblown nonwoven fabric for diaper, filters and hygienic products	Good processability and fiber uniformity, available in pelletized form, no peroxides	
Film Extrusion	IPP	520L	10	Used for inflated polypropylene (IPP) film process for producing garment and textiles bag, magazine covers, food packaging	Good optical properties and processability
		BOPP	521P	3.0	Core layer in co-extruded BOPP (biaxially oriented polypropylene) film, plain BOPP film
	524P		2.0	Excellent optical properties, high tensile strength, metalizable	
	5241P		2.2	High crystallinity, high stiffness, tensile properties and metalizable	
	5212P		3.0	Excellent optical properties, high tensile strength, metalizable	
	5231P		3.0		
	523PF	3.2			
	CPP	526P	8.0	Core layer in co-extruded CPP (cast polypropylene) film, plain CPP film	High gloss and clarity, high melt strength metalizable
Thermoforming	522K	3.0	Cup, trays, lids and various thin wall containers	High stiffness, good clarity and aesthetics, good dimensional stability	
	528K	3.0		High stiffness, good clarity, good dimensional stability	
	5271K	3.0		High stiffness, good clarity and good dimensional stability	
	5281K	3.0		High stiffness, good clarity, good dimensional stability	
Foaming	PP-UMS 561P	2.5	Extrusion foaming	Ultra melt strength, excellent foamability, high stiffness	
Healthcare	PCGH24	24	Injection molding of healthcare applications such as caps and closures, 3-part syringes, and other thin-wall applications	Biocompatible. Phthalate-free and peroxide-free resin specifically designed for healthcare applications, offering good clarity, good dimensional stability, high stiffness, excellent processability and demolding properties	

\*MFR is tested according to SABIC internal method

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PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	570P	8.0	Household articles	Consistent processability, good gloss and dimensional stability
	5702P	9.0	Household articles, caps and closures, containers, toys	
	5704PR	11		
	5703P	12		
	574PF	12		
	575P	11		
	5705P	15		
	5705PR	15		
	5780P	25	Household articles, toys and thin wall packaging	
	5707N	25	Housewares, thin wall packaging, caps and closures and garden furniture	Consistent processability, fast molding cycle, good gloss and clarity, high stiffness
	579S	47	Housewares, thin wall packaging, appliances, caps and closures	Low warpage, high stiffness, outstanding flowability, good contact transparency and high gloss
	5760NF	60	Thin wall packaging, housewares, compounding	Outstanding processability, high stiffness, low warpage
	5770NF	70		
	591A	6.0	Automotive compounding applications where high rigidity and good thermal characteristics are required	Medium flowability, high stiffness and formulated with dedicated automotive additive package
595A	47	High flowability, high stiffness and formulated with a dedicated automotive additive package		

## RANDOM COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	QR6701K	10	Clear housewares and packaging items, appliances, caps and closures, lids and ISBM bottles	Consistent processability, good stiffness, excellent clarity, lower energy consumption and less cycle time due to low processing temperatures
	QR6731K	25	Clear housewares items, caps and closures, food containers, ISBM bottles, lids and CD boxes	
	671KF	12	Clear housewares and packaging items, appliance, caps and closures, lids and ISBM bottles	Excellent clarity, good impact resistance, consistent processability
	673KF	25	Clear housewares items, food containers, caps and closures, CD boxes	Excellent clarity, good impact resistance, consistent processability
	QR6711K	45	Clear thin walled containers and boxes, housewares, caps and closures, lids	Consistent processability, good stiffness, excellent clarity, low warpage, short molding cycle, excellent organoleptic properties
	674KF	50	Clear thin wall packaging, housewares items, food containers, caps and closures	Excellent clarity, good impact resistance, outstanding processability
	QR6771K	70	Clear thin walled containers and boxes, housewares, caps and closures, lids	Consistent processability, good stiffness, excellent clarity, low warpage, short molding cycle, excellent organoleptic properties
	677KF	70		
Foam	6611PT	1.8	MPP solid-state foam ixPP irradiation crosslinked foam	Wide foaming window excellent mechanical properties
	6622PT	7	EPP autoclave beads foaming	Wide processing window, balance on Tm and E-Mod
Pipe Extrusion	P9421	0.3	Cold and hot water pipes and fitting for transport of drinking water	Special designed high molecular weight for pressure pipe, highly heat stabilized and extraction resistance
	6502HG	0.26		MRS10 pressure pipe, highly heat stabilized and extraction resistance
Healthcare	PCGR45	45	2-part / 3-part syringes, other applications demanding high level of transparency such as medicine measurement cup, pipette tips, etc	Biocompatible. Highly transparent polypropylene random copolymer with good antistatic properties. This grade combines improved aesthetics of the finished articles with low temperature processability and good organoleptic performance. Good stiffness to impact ratio

## IMPACT COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Pipe Extrusion	61EK61PS	0.3	Natural color PPB for sewage and drainage pipes	Good stiffness and excellent ring stiffness. suitable for corrugated pipes single and double wall
	71EK71PS	0.3		
Extrusion	83EK10	1.2	Automotive cooling pipe	Supper process ability for extrusion
Injection Molding	93MK10G	1.8	Pails, crates, home appliance, compounding, toys, sheets, pipes, heavy load containers	High impact resistance and high stiffness
	64M40T	2.0	Battery casing, crates, sheets and pipes	High impact resistance and medium stiffness
	94M10G	2.5	Pails, crates, home appliance, compounding, toys, sheets, pipes	High impact resistance and medium stiffness
	95MK40T	3.5	Pails, crates, housewares and thermoformed thin wall packaging	Good processability, high impact resistance and high stiffness
	36MK10	5.5	Battery cases, pails and containers, crates and boxes	Good impact stiffness balance, good low temperature impact resistance
	36MK10R	6.0		Good impact stiffness balance, impact resistance enhanced
	46MKN45	6.0	Beverage closures, housewares and industrial packaging	Contains slip, consistent process ability, fast molding cycle, high stiffness and good impact resistance at low temperature
	56M65	7.0	Battery cases, pails and containers, crates and boxes	Excellent long-term heat resistance, medium impact resistance and low warpage tendency
	87MK40T	8.0	Child safety seat, toys, battery case, suitcase and compounding	High impact strength and high stiffness
	87M10G	9.0	Child safety seats, toys, pails, battery case, housewares, home appliance, compounding	Good processability, high impact resistance and medium stiffness
	37MK10	9.0	Garden furniture, housewares, pails and containers, toys, crates and boxes	Good impact stiffness balance, good heat stability
	37MK10R	9.0		
	57MK90G	10	Housewares, home appliance parts, compounding, outdoor durable goods	Medium impact resistance and high stiffness
	37MCX10R	10	Home appliance parts, automotive interior and exterior, compounding	High stiffness, high gloss
	87MK40G	10	Child safety seat, toy, barrel, battery case, housewares, home appliance, compounding	Super high impact and high stiffness
	57MKN10	12	Garden furniture, housewares, pails and containers, toys, crates and boxes	High stiffness and medium impact resistance
	57MKN40	12		
	58MK40G	15	Crates, rigid packaging, boxes with complex shapes, components for automotive and EE industry	Medium impact resistance and high stiffness
	88MK40T	15	Housewares, crates, automotive interior and exterior, compounding	High impact resistance and medium stiffness
	38MK10R	16	Pails and containers, housewares, garden furniture, crates and boxes	Good impact stiffness balance, good heat stability
48MK40	16			
49MK45	21	Housewares, garden furniture, toys, appliances, pails and containers	Medium flowability, medium stiffness and impact resistance	
310MK10	24.5	Home appliance parts, automotive interior and exterior, thin wall injection articles and compounding	Good impact stiffness balance, good low temperature impact resistance, nucleated	
310MK40	24.5		Good impact stiffness balance, good low temperature impact resistance, nucleated and with antistatic	
310MK10R	24.5		Good impact stiffness balance, good heat stability	

## IMPACT COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	511MK40T	29	Home appliance parts, automotive interior and exterior, housewares, compounding	High stiffness and medium impact resistance
	511MK41T	29		High stiffness and medium impact resistance, low warpage
	511MK41G	30	Home appliance parts, automotive interior and exterior, housewares, compounding	High flow, low warpage, high stiffness and medium impact resistance
	511MK46	30	Appliances, housewares, pails and containers	High stiffness and medium impact resistance, excellent organoleptic properties
	311MK10R	30	Home appliance parts, automotive interior and exterior, thin wall injection articles and compounding	High stiffness and medium impact resistance
	311MCX10R	30	Home appliance parts, automotive interior and exterior, compounding	High stiffness, high gloss
	611MK10G	32	Home appliance parts, automotive interior and exterior, housewares, compounding	Good stiffness and medium impact resistance, low warpage
	312MK10	39	Housewares, toys, appliances and thin wall containers	Good impact stiffness balance, good low temperature impact resistance, excellent organoleptics, nucleated
	312MK10R	39		Good impact stiffness balance, good heat stability, good Impact at the low temperature
	412MK49	45	Housewares, toys, appliances and thin wall containers	Fast molding cycle, high stiffness and medium impact resistance
	513MN40	70	Thin wall injection molded articles	Fast molding cycle and good impact resistance
	FPC75	70	Thin wall injection molded articles	Fast molding cycle, excellent impact / stiffness balance and excellent organoleptic properties, phthalate free
	FPC70T	70		
	FPC71T	70	Thin wall injection molded articles	Fast molding cycle, excellent impact / stiffness balance and excellent organoleptic properties
	FPC70G	70		
	FPC105	100		Relatively fast molding cycle, excellent impact / stiffness balance and excellent organoleptic properties, phthalate free

## PP COMPOUND (MINERAL OR SHORT GLASS FIBER REINFORCED POLYPROPYLENE)

PROCESS	GRADE	MFR, g/10min (230°C/ 2.16kg)	IZOD IMPACT, KJ/m <sup>2</sup> , (notched+23°C)	E-MODULUS, MPa	APPLICATIONS	CHARACTERISTICS	
Injection Molding	1761	3.5	50	1100	Lead-acid battery housing	Stress whitening resistance optimized with excellent cold impact performance	
	15T1020	7.0	3.4	2700	General purpose, under the bonnet	High modulus and good heat stabilization	
	CX03B82	10	N.B.	1100	Interior applications	Low density 0.905g/cm <sup>3</sup> , high crystalline copolymer, excellent aesthetic properties and UV weathering properties, high impact resistance	
	37T1020U	13	5.7	2350	General purpose, under the bonnet	Excellent balance of stiffness and impact resistance	
	CX0281	15	8	1550	Interior applications	Low density 0.905g/cm <sup>3</sup> , high crystalline copolymer, excellent aesthetic properties, It offers high stiffness in perfect balance with high thermal dimensional stability, impact resistance and flow	
	3310H	25	3	2300	General purpose, under the bonnet	Excellent balance of mechanical property and processing flow	
	1311	30	3.5	2200	Cosmetic package, toys, consumers	FDA, lower density 0.97, Styrene free for Safer package solution, cosmetic package replace ABS	
	3720E	18	6	2200	Interior applications	Excellent stiffness and impact ratio with a low emission and fogging behavior	
	7705	22	20	1900		High scratch resistance, high stiffness, good impact, high flow and good esthetical performance	
	9140	22	29	1870		Good aesthetic performance, high scratch resistance, high stickiness resistance	
	9146	20	10	1900		Excellent impact and stiffness ratio, high flow, high scratch resistance, no stickiness and low density	
	9110	23	30	1550		Aesthetic performance, high scratch resistance with high stiffness, good impact and high flow, broad processing window	
	9125	20	12	1800		Excellent impact and stiffness, esthetical performance, a high scratch resistance, no stickiness, high flow	
	9135	22	12	1900		Light weight, balance of mechanical property and good esthetical performance	
	9310D	20	10	1660		Automotive interior ambient lighting	Transparent PP, transmission 75%@ 2mm, Haze 67% @ 2mm
	9800T	13	5	1350			Transparent PP, transmission 70%@ 2mm
	9801TD	12	3	2100			Transparent PP, transmission 60%@ 2mm, 50DLD AF@2mm
	9802TD	15	3.5	1900	Transparent PP, transmission 56%@ 2mm, 56DLD AF@ 2mm		
	9803TD	18	4.5	1800	Automotive interior soft feeling	High modulus, soft feeling, low gloss	
	S3615	7	30	2300		Exterior application	Low density, high flow, high stiffness and high impact
	S3625	6	35	2900	Excellent flow, high impact and good stiffness. Excellent esthetical performance, low tiger stripe visibility		
	5450	20	N.B.	1000	Good flow, high impact and stiffness, low shrinkage and CLTE, suitable for zero gap design bumper and trims		
	5405	20	N.B.	1200	Low density and excellent stiffness impact balance, suitable for weight reduction with complex and large shape		
	7530	15	N.B.	1250	Good flow, impact and stiffness		
	8500D	9.0	N.B.	1500			
108CS20	7.0	N.B.	1500				

PP COMPOUND (MINERAL OR SHORT GLASS FIBER REINFORCED POLYPROPYLENE)

PROCESS	GRADE	MFR, g/10min (230°C/ 2.16kg)	IZOD IMPACT, KJ/m <sup>2</sup> (notched+23°C)	E-MODULUS, MPa	APPLICATIONS	CHARACTERISTICS
Injection Molding	G3010A	0.3	13	2400	Automotive cooling vessele	High modulus, good impact
	G3220A	17	9.5	4500	Under the bonnet applications	Short glass fiber reinforced PP with good performance and fast processing
	G3230A	11	10	6900		Short glass fiber reinforced PP with good performance and fast processing
	G3220AE	17	10	4500		Short glass fiber reinforced PP with good performance and fast processing, low emission and low smell
	G3230AE	12	12	6300		Short glass fiber reinforced PP with good performance, fast processing and low emission value
	G3240A	5.0	10	8900		Short glass fiber reinforced PP with good performance and fast processing
	G3135X	2.0	10	8100		Short glass fiber reinforced PP with high stiffness, high impact, high heat resistance and chemical resistance
	86MF97	4.0	60	1000		Automotive wire harness
	G1620B	1.0	17	2800	Natural color PPR-GF for three layer PPR-GF composite pipes for hot and cold water pipes	Good stiffness, excellent chemical and heat stability, reduced CLTE and hence less expansion joints and require less number of supports, pipes can be made of higher SDR as compared to the normal PPR pipes
	1600	3.7	52	1265	Outdoor consumer injection molded applications	Medium flow, UV stabilize

PP COMPOUND (MINERAL OR SHORT GLASS FIBER REINFORCED POLYPROPYLENE)

PROCESS	GRADE	TENSILE STRENGTH MPa	CHARPY IMPACT KJ/m <sup>2</sup> (notched+23°C)	E-MODULUS MPa	TYPICAL APPLICATION	CHARACTERISTICS
Injection Molding	H1015	64	7	4700	Automotive electronics, power battery	Flame redardant, 15% SGF, V0@3.0mm
	H1020	85	7	6400		Flame redardant, 20% SGF, V0@1.5mm
	H1025	91	8	7600		Flame redardant, 25% SGF, V0@1.5mm
	H1030	100	9	8700	Automotive electronics, power battery casing, components	Flame redardant, 30% SGF, V0@1.5mm
	H1200	15	13	960	Automotive electronics, power batteries, low modulus, foldable or snap-fit components	Flame redardant, Copolymer PP, V0@2.0mm
	H1300	17	5	1650		Flame redardant, Copolymer PP, V0@0.8mm
Extrusion	H1090	95	11	8300	Automotive electronics, power battery casing, components	Flame redardant, 30% SGF, V0@1.5mm

# STAMAX™ LONG GLASS FIBER REINFORCED POLYPROPYLENE

PROCESS	GRADE	E-MODULUS MPa	TENSILE STRENGTH, MPa	CHARPY IMPACT, KJ/m <sup>2</sup> (unnotched +23°C)	APPLICATIONS	CHARACTERISTICS
Injection Molding	20YM240	4800	81	34	Interior and under the bonnet applications such as tailgates, front-end modules and door structures	The PP homopolymer based materials offer low-weight, cost-effective solutions due to their relatively high stiffness and good dimensional stability, excellent balance of low emission and low smell performance
	30YM240	7000	109	56		
	30YM241	7000	109	56		
	30YM243	7000	109	56		
	40YM240	9400	121	57		
	40YM240E	8200	110	55		
	40YM243	8200	110	55		
	60YM240	13500	110	57		
	60YM241	13500	110	57		
	20YK270E	4300	62	40	Interior applications such as dashboard carriers	The PP copolymers based materials offer high impact performance, fully complying with dashboard carrier knee and head impact requirements, as well as good stiffness and smell performance
	30YK270E	6400	98	66		
	60YK270E	12000	102	60		
	30YK645	5000	70	60	Outdoor applicaitons, 5G antenna	Low Dk/Df, high impact, flame resistance UL HB/F1
	30YH530	7200	80	16	Automotive power battery casing, components	Flame redardant, 30% LGF, V0@3mm
	30YH570	7700	80	14		Flame redardant, 30% LGF, V0@1.5mm
	20YH510	6000	70	14		Flame redardant, 20% LGF, V0@0.8mm
40YK710	7000	92	66	Electrical and electronic enclosures, power tools housing	Low temperature impact, can self tapping screw, flame resistance UL HB	
30YH515	7500	95	45	Electrical and electronic enclosures	Halogen free flame redardant, 30% long glass fiber reinforced, V0@1.5mm	
Extrusion	30YH611	8100	90	17	Automotive power battery casing, components	Flame redardant, 30% LGF, V0@1.5mm

## Circular LLDPE

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	218NFC	2.0	0.918	Food and nonfood packaging	No slip and antiblock
	222WFC	2.0	0.922		High slip and antiblock

## Circular HDPE

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	M75056FC	7.5	0.956	Houseware, cap and closure, crate, pail	High toughness, low warpag

## Circular HPP

PROCESS	GRADE	MFR,g/10min (230°C/2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Raffia Extrusion	501SFC	3.4	Woven bag, geotextiles and flexible intermediate	Consistent processability and good mechanical properties
Injection Molding	574PFC	12	Household articles, caps and closures, toys	Consistent processability and good gloss
	5770NFC	70	Thin wall packaging, houseware	Outstanding processability, low warpage

## Circular RCP

PROCESS	GRADE	MFR,g/10min (230°C/2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	673KFC	25	Clear houseware, food containers, caps and closures	Excellent clarity, good impact resistance, consistent processability

## LEXANT™ RESIN PC (POLYCARBONATE)

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Auto Lighting	LS2	11	800	Automotive lens	UV-stabilized, medium viscosity AMECA certified
		LS1	17.5	690		UV-stabilized, low viscosity AMECA certified
	General Purpose	141R	10.5	800	Small appliance, telecom equipment, automotive, consumer electronics	Internal mold release
		143R	10.5	800	Lighting, telecom equipment, consumer electronics, audio, packaging	UV-stabilized, internal mold release
		121R	17.5	690	Automotive interior and exterior, consumer electronics, lighting	High flow and internal mold release for intricate parts
		123R	17.5	690		UV-stabilized , high flow and internal mold release for intricate parts
		241R	10.5	800	Desktop, printer, wall plate, router	Medium viscosity, V2, internal mold release
		243R	10.5	800	Wiring device, lighting, small appliance	Medium viscosity, UV-stabilized, V2, internal mold release
		223R	17.5	690	Wireless communication, lighting reflector, smart meter, home appliance, camera	UV-stabilized , V2, high flow and internal mold release for intricate parts
		223S	18	694	Wall plate, smart audio, cellphone protection case	UV-stabilized, V2, high flow and super internal mold release for intricate parts
		HF1110R	25	640	Wireless device, game player, document handling machine	Excellent flow, easy mold release for thin wall parts
		HF1130R	25	640		UV-stabilized, excellent flow, easy mold release for thin wall parts
	FDA	144R	10.5	800	Home appliance, food processor, toy, food disposable	FDA food contact compliant, internal mold release
		244RF	10.5	800	Home appliance such as: microwave oven, coffee machine, water kettle	FDA food contact compliant, V2, internal mold release
	Eyewear	OQ4005	8.5	900	Sunglasses lens	Good optical properties and cleanness, UV stabilized, 400nm UV cut off
	Extrusion	General Purpose	103(R)	7.0	900	Sheet, profile part
EX7681T			10.5	77	Excellent UV resistance and low volatile	
Compounding	General Purpose	101	7.0	907	Compounding	Low flow, heat stability
		IR2210	10	800		Medium flow, heat stability
		IR1810	22	640		High flow, heat stability

## LEXANT™ PC FOR LIGHT APPLICATION

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Light Management	LUX2180T	18	650	Optical parts such as : LED 1 <sup>st</sup> lens, lighting lens, light guide	High transmission and cleanness, UV stabilized, color stability, V2, F1
		LUX2910T	55	500	Optical parts such as : LED 1 <sup>st</sup> lens, lighting lens, light guide	High transmission and cleanness, superior flow, color stability, V2
		LUX2614	7.0	750	Lighting, LED tube	Diffusion, internal mold release, V2, UV stabilized, F2
		LUX2114G	18	600	Lighting, LED bulb	Diffusion, internal mold release, V2, UV stabilized, F2 long term stability
		LUX2289	17	650	Light reflector, light shielding parts	High light reflectance, UV stabilized, V2
		LUX9612G	7.0	400	Lighting, LED bulb	Diffusion, non brominated and non chlorinated FR system, V0@1.5mm
		LUX9616G	7.0	450	Lighting, LED bulb	Diffusion, non brominated and non chlorinated FR system, V0@1.5mm
		LUX9230T	14	800	Lighting , clear Lens, bulb	Clear, halogen-free flame retardant PC has a V0@3.05mm UL rating, UV resistance, F1
		LUX9610	7.0	760	Lighting , clear lens, bulb and tube	Clear, halogen-free flame retardant PC has a V0@1.5mm UL rating, UV resistance, F2
		LUX7169 (WH8G733)	22	90	Lighting, reflector	Reflectivity, halogen-free flame retardant PC has a V0@0.9mm UL rating, UV resistance, F2
		BFL2000(U)	32	600	Lighting, reflector	Reflectivity, halogen-free flame retardant PC has a V0@1.5mm UL rating, grade name with suffix U stands for weathering capability
	LUX1032	28	10	Auto rear lamp inner lens	Diffusion, high flow , available for color match	
	Auto Lighting	XLS1110	35	57	Auto light bar, inner lens	High transmittance, super low viscosity, AMECA certified
		HF3510LB	35	570	Automotive light guide, inner lens	UV-stabilized, low viscosity, supper optical performance
		AD2530L	25	650	Automotive lighting inner lens	UV-stabilized, low viscosity
Auto Glazing	GLX143	12	650	Automotive glazing window	UV-stabilized, impact, supper impact	

## LEXANT™ FLAME RETARDANT GRADES

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Non-Filled, Opaque FR-PC	BPL1000	25	600	Thin wall application, battery enclosures, connectors	High flow, opaque, non-brominated non-chlorinated FR systems with UL-94 listing of V0@0.8 mm rating
		915R	18	740	Document handling, electric housings	Good flow and mold release properties, opaque, non-brominated non-chlorinated FR systems with UL-94 listing of V0@1.1mm rating
		916R	18*	65**	Document handling, electric housings	Good flow and mold release properties, opaque, non-brominated non-chlorinated FR systems with UL-94 listing of V0@0.8mm rating, limited to color
		925	14	800	Document handling, electric housings	Non-brominated non-chlorinated FR PC has an UL-94 V0@1.1mm rating flow and impact balance
		925U	14	800	Document handling, outdoor electric housings	Non-brominated non-chlorinated FR PC has an UL-94 V0@1.5mm rating and is UV stabilized, F1, providing additional weathering capability
		945	10	800	Adaptor, charger, battery enclosures	Non-brominated non-chlorinated FR PC has an UL-94 V0@1.0mm and 5VA@3.0mm ratings, it is a general purpose resin designed to meet the needs of various applications
		945U	10	800	Electrical housing	Non-brominated non-chlorinated FR PC has an UL-94 V0@1.5mm and 5VA@3.0mm ratings, F1, it is UV stabilized, providing additional weathering capability
		945M	10	818	Adaptor, charger, battery enclosures, EV charger	Non-brominated non-chlorinated FR PC has an UL-94 V0@1.5mm and 5VA@3.0mm ratings, good impact at low temperature, it is a general purpose resin designed to meet the needs of various applications
		945DU	10	700	Adaptor, charger, battery enclosures, EV charger, outdoor base station housing	FR-PC, non-chlorinated, non-brominated flame retardant, UL94 V0@1.0mm, 5VB @2.0mm and 5VA@3.0mm ratings, excellent impact at low temperature
		945S	10	800	Automotive electronic, adaptor, charger, battery enclosures	Non-brominated non-chlorinated FR PC has an UL-94 V0 and S.2 needle flame @1.5mm, UV stabilized
955	7.0	800	Electrical housing	Non-brominated non-chlorinated FR PC has an UL-94 V0@1.5mm and 5VA@3.0mm ratings, it is a general purpose resin designed to meet the needs of various applications		

\*MFR - ISO1133 at 300°C/1.2kg in cm<sup>3</sup>/10min

\*\*IZOD IMPACT - ISO180/1A at 23°C in kJ/m<sup>2</sup>

## LEXANT™ FLAME RETARDANT GRADES

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Non-Filled, transparent FR-PC	905AU	27	700	Thin wall application, electric housing	High flow, clear nonbrominated, nonchlorinated FR systems with UL-94 listing of V0@2.5 mm rating
		915AU	23	650	Thin wall application, battery enclosures, connectors	High flow, clear nonbrominated, nonchlorinated FR systems with UL-94 listing of V0@3.0 mm rating
		925A	13	800	Document handling, electric housings	Clear nonbrominated, nonchlorinated FR systems with UL-94 listing of V0@3.0 mm rating
		925AU	13	800	Document handling, electric housings	Clear nonbrominated, nonchlorinated FR PC has an UL-94 V0@3.0mm rating and is UV stabilized, F1, providing additional weathering capability
		945A	10	800	Document handling, outdoor electric housings	Clear nonbrominated, nonchlorinated FR PC has an UL-94 V0@3.0mm rating
		945AU	10	800	Document handling, electric housings	Non-brominated non-chlorinated FR PC has an UL-94 V0@3.0mm rating and is UV stabilized, F1, providing additional weathering capability
		9925A	13	750	Electrical housing, thin wall FR clear application	Clear nonbrominated, nonchlorinated FR PC has an UL-94 V0@1.5mm rating, F1, it is UV stabilized, providing additional weathering capability
		955AU	7.0	800	Connectors, document handling	Clear nonbrominated, nonchlorinated FR PC has an UL-94 V0@3.0mm rating and is UV stabilized, F1, providing additional weathering capability
	NIA PFAS	929AU	13	800	Electric housings	Transparent FR-PC; non-chlorinated, non-brominated flame retardant, no PFAS intentionally added. UL94 V0@3.0mm, UV stabilized, UL746C f1 rated
		949AU	10	800	Electrical housing, thin wall FR clear application	Unfilled opaque FR-PC, non-chlorinated, non-brominated flame retardant, no PFAS intentionally added. UL94 V0@1.5mm
		949U	10	800	Adaptor, charger, battery enclosures	10% Glass Filled, FR-PC, Non-brominated, non-chlorinated, no PFAS intentionally added, FR UL94 V0@1.5mm
		509RU	8	90	Connector, electric housing	20% Glass Filled, FR-PC, non-brominated, non-chlorinated, no PFAS intentionally added, FR UL94 V0@1.5mm
		3492R	7	110	Connector, electric housing	

## LEXANT™ FLAME RETARDANT GRADES

PROCESS	SERIES	GRADE	MFR, g/10 min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Glass Filled, FR-PC	505R	7.0	100	Connector, electric housing	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VB@2.0mm, 10%GF filled 5VA@3.0 mm
		505RU	8.0	90	Electric enclosure, connectors	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA@3.0mm, 5VB@3.0mm F1, UV resistance, 10%GF filled
		515RU	9.0*	10**	Document handling, electric housings	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA at 3.0mm, F1, UV resistance , higher impact, 10% GF filled
		BFL2010	14.4	110	Electric housings, consumer appliance	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, high flow, 10%GF filled
		BFL2015	6.5	78	Electric housings, consumer appliance	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, middle flow 15%GF filled
		3412ECR	7.0	110	Connector, electric housing	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA@3.0mm, F1, UV resistance, 20%GF filled
		3414ECR	20 (300°C/2.16kg)	100	Automotive electronic housing & E&E	Non-brominated non-chlorinated Flaming Retardant, V0@ 2mm, high flow, 40% SGF

\*MFR - ISO1133 at 300°C/1.2kg in cm<sup>3</sup>/10min

\*\*IZOD IMPACT - ISO180/1A at 23°C in kJ/m<sup>2</sup>

# LEXANT™ PC FOR HEALTHCARE

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS	
Injection Molding	ETO	HP1HF	39	687	Healthcare application	Biocompatible (ISO10993 or USP Class VI), contains mold release, high flow	
	ETO and Autoclave	HP1	25	640	Medical devices and pharmaceutical applications	Biocompatible (ISO10993 or USP Class VI), contains mold release HP9NR does not contain mold release	
		HP2	17.5	694			
		HP4	10.5	801			
		HP9NR	2.5	750			
	GAMMA ETO Autoclave	HPS1	25	640			
		HPS2	17.5	694			
		HPS4	10	840			
		HPS6	7.0	907			
		HPS7	5.0	935			Medical devices and pharmaceutical applications

## SABIC® PC RESIN (POLYCARBONATE)

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 300°C/1.2kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	General Purpose	PC1000R	10	800	Wall plate, switch, home appliance	Middle flow, heat stabilized, internal mold release
		PC1003R	10	800	Electric meter, lighting	Middle flow, heat and UV stabilized, internal mold release
		PC2200R	22	600	Fan, small home appliance, lighting	High flow, heat stabilized internal mold release
	Optical Media	PC5800	58	150	Media market: DVD, CD	Super high flow
	FDA	PC1004R	10	800	Home appliance, food processor, toy, food disposable	Middle flow product, with internal mold release, FDA food contact compliant
	Auto Lighting	ALS01	12	800	Automotive Lens	Middle flow product, UV stabilized
Extrusion	General Purpose	PC0703R	7.0	900	Sheet	Low flow, heat and UV stabilized, internal mold release
Compounding	General Purpose	PC0700	7.0	900	Compounding	Low flow, heat stabilized
		PC2200	22	600	Compounding	High flow, heat stabilized
		PC6100	61	150	Compounding	High flow

## VALOX™ RESIN PBT (POLYBUTYLENE TEREPHTHALATE)

PROCESS	SERIES	GRADE	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Standard	325	53	2340	Sprinklers and nozzles, pumps, door handle, tank covers, pens, pencils	Unreinforced, improved processing
		420	110	8000	Appliance handles, spotlights, electric motors	30% GF, excellent strength, stiffness and dimensional stability
	Impact Modified	V3004	51	2300	Flexible hinge, automotive connectors, film applications	Unfilled impact modified PBT
		VIC4311	137	6080	Automotive underhood applications such as ignition coil housings	30% GF, impact modified PBT with excellent epoxy adhesion
	Metallizable	V2000DM	46	2570	Automotive lighting bezel	Unreinforced, directly metallizable PBT resin
		EH7020	32	4130	Automotive bezel applications	Mineral filled, metallizable, PBT
	FDA food Contact	325FC	38	2340	Kitchenware applications	FDA food contact , PBT
	Low warpage	508	96	6890	Appliance handles, spotlights, electric motors	30% GF filled PBT / PC, excellent mechanical and thermal performance
	Low warpage + weatherable	VX4920	80	5500	Connectors and automotive industry	20% GF, nucleated PBT / ASA blend with excellent mechanical properties
	High Heat + Aesthetics	830	90	7400	Hot air gun housing assemblies, industrial glue guns, appliance housings and handles	30% GF PBT / PET, excellent surface finish
	Hydrostable	K4560	96	7200	Automotive applications	30% GF PBT, impact modified, high flow, hydrolytically stable
	Healthcare	HX420HP	85	7580	Medical devices and pharmaceutical applications	Medium flow, 30% GF PBT, biocompatible (ISO10993 or USP Class VI)

## VALOX™ RESIN PBT, PBT/PC, PBT/PET ALLOY FLAME RETARDANT GRADES

SERIES	GF%	GRADE	FR RATE (UL 94) MVR, cm <sup>3</sup> /10min (250°C/5.0 kg)	FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	TYPICAL APPLICATIONS	CHARACTERISTICS
PBT/PC	0	357X(U)	V0@0.75mm, 5VA@2.5mm, MVR8	2060	Connector, electronic housings	Weatherable, F1
	0	V3900WX*	V0@1.5mm 5VA@3.0mm, MVR11	2200	Battery enclosure, electronic housing	Weatherable, F1
	10	4512	V0@0.75mm, MVR30	3400	Electric motors, connector	Impact modified
	30	553	V0@0.8mm, MVR20	9400	Electric motors, connector	Lower warpage
PBT/PET	15	855	V0@1.5mm, MVR32	5200	External housings, steam irons, appliance housings and lighting parts	Improved surface appearance
	30	865	V0@1.7mm, MVR23	8000	External housings, steam irons, appliance housings and lighting parts	Flame retardant PBT+PET blend with an excellent surface appearance
PBT	0	310SE0	V0@0.71mm, 5VA@3.0mm, MVR15	2620	Electrical industry, bobbin, components and appliance housings	Standard
	6.5	457	V0@0.7mm, MVR30	3700	Electrical and appliances industries	Standard
	17	DR48	V0@0.9mm, MVR40	5200	Lamp sockets, connectors, switches	Standard
	20	4521	V0@0.75mm, 5VA@2.0mm, MVR65	6500	Electrical applications	Electrical, CTI
	30	420SE0	V0@0.7mm, 5VA@2.0mm, MVR29	9800	Edge trimmers, food mixer motor stator and commutator, cooling fan	Standard
	30	4631	V0@0.75mm, MVR40	9000	Edge trimmers, food mixer motor stator and commutator, cooling fan	Electrical, CTI
	30	V4760	V0@0.3mm, MVR28	9500	Electrical applications	Thin wall brominated FR, high flow, high CTI
	30	V4860HR	V0@0.8mm, MVR12	6740	Electrical and medical application	Hydrolytically stable, impact Modified
	35**	771	V0@0.75mm, 5VA@2.0mm, MVR8	7900	Electrical applications	Electrical, CTI

\*MVR test condition: 265°C, 2.16 kg

\*\*Glass filled/mineral filled

## CYCOLACT™ RESIN ABS (ACRYLONITRILE BUTADIENE STYRENE)

PROCESS	SERIES	GRADE	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	General Purpose	MG47 (F/N)	320	80	Home appliance, toy, business equipment	General purpose, medium impact, balanced flow, grade name with suffix F stands for FDA compliant, grade name with suffix N stands for NSF compliant
		MG94(F)	240	82	Large size and thin wall applications	High flow, impact, grade name with suffix F stands for FDA compliant
	High Heat	X11	320	86	Automotive interior, rear lighting housing, rear mirror housing, warm air blower	HDT 101°C, medium impact
		DL200H	620	96	Automotive interior, rear lighting housing, rear mirror housing, warm air blower	HDT 90°C, balanced flow, impact
	Healthcare	HMG47MD	320	82	Medical disposable, housing, handles, drain bases	Flow, impact balanced, biocompatible, healthcare
		HMG94MD	240	82	Medical disposable, housing, handles, drain bases	High flow, biocompatible, healthcare

## GELOY™ RESIN PC/ASA ALLOY

PROCESS	SERIES	GRADE	IZOD IMPACT, kJ/m <sup>2</sup> (ISO 180/1A, notched 80*10*4, 23°C)	HDT SOFTENING TEMP, °C (ISO 306, B/120)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	General Purpose	XP4025	15	102	Consumer appliances housing, transportation panel, automotive, outdoor device housing	Cost balanced
		XP4034	33	115	Automotive external / inner rear mirror housing, roof rack trim, lift gate, decklid handle housing, license plate frame	High heat resistance, middle impact, F2 rating
	Flame Retardant	HRA222 (F)	17	88	Coffee machine, switch panel, medical device, telecom device	Non-Br / Cr FR, V0@2 mm, 5VB@2 mm, grade name with suffix F stands for UL94 F1 rating
		XTPMFR10	13	82	Consumer appliances housing, transportation panel, automotive, outdoor device housing	Non-Br / Cr FR, V0@1.0 mm, 5VB@2 mm

## CYCOLOY™ RESIN PC/ABS ALLOY

PROCESS	SERIES	GRADE	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	MFR, g/10min (ASTM D 1238, 260°C/5kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Non-FR General Purpose	C1200HF	587	19	Automotive interior and exterior, lighting, consumer electronic, telecommunication	High heat, high impact, low temperature impact
		HC1204HF	580	24	Medical equipment and device	Healthcare biocompatible (ISO 10993, USP class VI compliance)
		LG9000	534	17	Automotive interior	Low gloss
		MC1300	534	14	Automotive door handle, front grill, name plate, decoration strip, bathroom accessory	Plating grade, excellent flow and impact
		CP8320	600	14	Automotive, door handle, front grill, name plate, decoration strip, bathroom accessory	Plating grade, medium heat
		XCY620	640	17	Automotive interior and exterior	Excellent properties retention after hydrolytic and heat aging
		XCY620S	680	23	Automotive interior and exterior	Standard colors available
	Non-FR, Filled	XCM830	500	9 (300°C, 1.2kg)	Automotive glazing window structure	High modulus, good impact

## CYCOLOY™ RESIN PC/ABS AND PC BLENDS ALLOY FLAME RETARDANT GRADES

PROCESS	SERIES	GRADE	MFR	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Non-Filled, FR-PC/ABS and PC blend	C6600*	21	550	Document handling, consumer appliance	Nonbrominated, nonchlorinated FR V0@1.5mm, 5VB@2mm, hydrostable
		CY6110*	23	475	Document handling, electrical housing	Nonbrominated, nonchlorinated FR V0@1.5mm, 5VB@2.5mm, high hydrostable, high flow and high impact
		CY6310*	20	600	Document handling, electric housings	Nonbrominated, nonchlorinated FR V0@1.5mm, 5VA@2.9mm, 5VB@2.3mm , high impact, heat, flow
		CY6414**	14	795	Electric housings, adaptor and chargers	Nonbrominated, nonchlorinated FR V0 @1.2mm, 5VB@2.5mm, high heat, impact modified PC blend
		CY6120*	18	587	Document handling, electric housings	Nonbrominated, nonchlorinated FR V0@1.2mm
		CY6025*	28	370	Document handling, electric housings	Nonbrominated, nonchlorinated FR V0@1.2mm, 5VB@1.5mm, high flow
	NIA PFAS	C9210*	9	630	Electric housings	FR PC/ABS, non-brominated non-chlorinated and no PFAS intentionally added flame retardant grade. UL94 V0@1.5mm

\*MFR at 260°C/2.16 kg in g/10 min

\*\*MFR at 260°C/5 kg in g/10 min

## CYCOLOY™ RESIN PC/ABS AND PC BLENDS ALLOY FLAME RETARDANT GRADES

PROCESS	SERIES	GRADE	MFR, g/10min (ASTM D 1238, 260°C/5kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Filled, FR PC/ABS	CM6140*	17.5	200	Electric housing	3.3 GPa, Vicat 91°C, nonbrominated, nonchlorinated FR V0 @ 0.8mm, V1@ 0.6mm 5VB@ 1.5mm
		CM6240*	16.5	86	Electric housing	4.4 GPa, Vicat 97°C, nonbrominated, nonchlorinated FR V0 @ 0.8mm 5VB@ 1.5mm
		C7230P*	13	69	Electric housing	4.5 GPa, Vicat 108°C, nonbrominated, nonchlorinated FR V0 @ 1.2mm, 5VB@ 2.0mm
		C7230HF*	12	61	Electric housings	4.4 GPa, Vicat 106°C, non brominated, non chlorinated FR V0 @ 1.0mm
Injection/ Extrusion/ Thermoforming		CM6210**	11.5	500	Electric housing Sheet extrusion	3.5 GPa, Vicat 106°C, nonbrominated, nonchlorinated FR V0 @ 1.5 mm

\*MFR at 260°C/2.16 kg in g/10 min

\*\*MFR at 260°C/5 kg in g/10 min

## XENOY™ RESIN PC/PBT ALLOY

PROCESS	SERIES	GRADE	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	TYPICAL APPLICATIONS	CHARACTERISTICS	
Injection Molding	General Purpose	5220U	710	84	Recreation and agriculture equipment, handset housing and accessory, power tools, CE handset accessory, housing	Chemical and UV resistance, low temperature ductility, molded-in-color	
		CL100	700	90	Heavy trucks (body panels) shoe caps	Chemical resistance, low temperature ductility, molded-in-color, good paint adhesion	
	Weather-ability	1731	667	93	Exterior components (door handles), CE wearables (athletic trackers)	Impact, chemical resistance, molded-in-color	
	Auto Interior	1731HS	600	98	Automotive interior	Good impact, hydro performance & chemical resistant	
	Low Temp Ductility	6620U	801	53	Gas tanks, irrigation sprinklers, packaging consumer electronics	Chemical and UV resistance, barrier to fuel, molded-in-color, weathering capability	
		5720U	722	83	Recreational and agriculture equipment, packaging	Chemical and UV resistance, LT ductility ("Best-in-class"), molded-in-color, weathering capability	
		1102	801	90*	Energy absorbers, bumper beam home appliance	Excellent low temperature impact, chemical resistance to automotive fluids	
		1105	755	97*	Energy absorbers, bumper beam, home appliance	Excellent low temperature impact, chemical resistance to automotive fluids	
	Injection Molding	High Heat	X2500UV	600	108	Heavy trucks (body panels)	Chemical resistance, low temperature ductility, molded-in-color, good paint adhesion, improved heat (vs CL100)
		Filled PC/PBT	X6320	45	88	Painted door handle	10% mineral, good surface finish and ease of process
X5230			8**	100***	Automotive and OVAD	15% talc filled, good surface appearance for painted solutions	
6370			170	148	Automotive and OVAD	30% glass fiber, impact modified, toughness	
HMD (High Modulus Ductile)		X4830	600	106	Outdoor equipment, door handle, flexible hinges	Hydrostable, 7% mineral, high modulus, low temperature ductile	
		X4850	180	101	Outdoor equipment, door handle, flexible hinges	12% mineral, hydrostable, high modulus, high ductile	

\*HDT Part thickness 6.4mm

\*\*IZOD IMPACT - ISO100/1A in kJ/m<sup>2</sup>

\*\*\*HDT - ISO75/Ae

## XYLEX™ RESIN PC/POLYESTER ALLOY

PROCESS	SERIES	GRADE	MFR,g/10min (ASTM D 1238, 265°C/ 2.16kg)	IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Consumer Electronics	X7300(CL)	21	660	Mobile phones cover and lens, peripherals and device	Transperent, chemical resistance, low temperature processing, grade name with suffix CL stands for clean
		X8210	10	800		Transperent, chemical resistance, low temperature processing
	General Purpose	X8409AC	4.0	854	Power tools, others	High viscosity and melt strength, extrusion, blow moldable, selective plating
		X7507	8.0	990	Pool Spa	Transparent, UL F1 performance, chemical resistance vs pool cleaners
		X8300(CL)	15	1120	Personal consumer (safety, sunglasses Eye ware)	Transparent, high chemical resistance, low temperature processing
		X7509HP	12	850	Consumer Housewares Food service	Transparent, better flow, excellent selective plating, FDA
	Healthcare	HX8300HP	15	1120	Medical equipment and delivery devices	Transparent, high chemical resistance, better flow, biocompatible
		HX7509HP	12	854		Transparent, chemical resistance, biocompatible

## POM (POLYOXYMETHYLENE)

REMARKS: NOT ALL POM GRADES ARE AVIALABLE IN ASIA. PLEASE CHECK WITH US FOR THE PRODUCT AVIALABILITY IN SPECIFIC COUNTRIES.

PROCESS	GRADE	MELT INDEX g/10min (ISO1133, 190°C/ 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Extrusion Molding	30RE	2.8	1.41	Thick-walled, void-free molded parts, extruded stock shapes	Stiff-flowing copolymer POM grade suitable for injection molding and extrusion, good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance
	30S	3.0	1.41	Thick-walled, void-free parts used for automotive parts like door handles, sheet, rods and tubing	Stiff-flowing copolymer POM grade suitable for injection molding and extrusion, high impact toughness, good tracking resistance over range of temperature
Injection Molding	90S	9.0	1.41	Wide range of plumbing products, camera gears and toys	General purpose standard injection molding grade, high rigidity, tough and hardness
	140S	14	1.41	Precision parts and thin-walled moldings, fuel systems parts, zippers	Easy flowing Injection molding type for precision molded parts and thin-walled molded parts with high rigidity, high toughness and hardness
	280S	27	1.41	Complicated precision parts, thin-walled moldings multicavity molded goods like gears, sprinkler systems and shower heads	Easy flowing injection molding grade, high rigidity and hardness
	460S	45	1.41	Complicated, thin-walled precision parts, water flow meter	Relatively easy flowing injection molding grade for thin-walled precision molded parts with intricate flow-path-wall thickness relation, permits processing at reduced temperature and shorter cycle times

## SABITAL™ POM COMPOUND

PROCESS	GRADE	MELT INDEX cm <sup>3</sup> /10min (ISO1133, 190°C/ 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	90GV10	4.5	1.48	Molded parts requiring high strength, stiffness, hardness and wear resistance	Good flow and combination of strength, stiffness, good dimensional stability
	90GV20	2.5	1.57	Molded parts requiring high strength, stiffness, hardness and wear resistance	Moderate flow with higher strength, stiffness, hardness and high HDT, good dimensional stability
	90GV30	3.0	1.60	Molded parts requiring high strength, stiffness, hardness and wear resistance	Combination of high strength, high stiffness, hardness and high HDT, good dimensional stability

## POLYETHYLENE TEREPHTHALATE (PET)

PROCESS	SERIES	GRADE	Intrinsic Viscosity (dl/g)	Crystalline Density (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	Healthcare	PCG60	0.6	<1.39	Medical blood tubes	Biocompatible. Produced under controlled conditions resulting in high product quality, consistency and a high level of purity. This grade exhibits easy flow ability which benefits thin walled injection molding process
		PCG80	0.8	<1.39	Pharma bottles	Biocompatible. Produced under controlled conditions resulting in high product quality, consistency and a high level of purity

## PMMA (POLYMETHYL METHACRYLATE)

PROCESS	GRADE	MELT INDEX (g/min) (ISO1133, 230°C/3.8kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Extrusion, Molding, Thermoforming	P15OE	1.5	1.19	Used in monitor LGP (Light Guide Plate) e.g. TVs and LCDs	An optical LGP extrusion grade an optical extrusion grade characterized by low foreign-matter account (MRC test method) and low UV absorbance (<70 ppm)
	17OP	1.7	1.19		
	20HR	2.0	1.19	Heat resistance grade used for e.g. tail light	Heat resistance grade, characterized by high temperature of deflection under load (≥98 °C) and high vicat softening temp (≥105 °C) is a standard PMMA grade is largely divided in to extrusion and injection molding purpose
	P20MH	2.0	1.19		
	23SP	2.3	1.19	Used for sheet extrusion with a wide range usage out door, e.g. signage	Special extrusion grade, the balance of melt flow rate and temperature of deflection under load is convenient for extrusion
Injection Molding	140HF	14	1.19	Used for injection molding applications such as cups and salad bowl	Easy flowing grade for Injection molding with high flow, good moldability

## PA6 (Polyamide 6)

PROCESS	GRADE	Relative Viscosity	Water Content (Wt %)	TYPICAL APPLICATIONS	CHARACTERISTICS
Extrusion Molding Spinning Coating	S27	2.7	≤0.06%	Plastics compounding, paper coating, high tenacity, monofilament / yarn	Low viscosity, contains no lubrication
	S32	3.2	≤0.06%	Plastics compounding paper coating and barrier film, high tenacity filament for fishing nets / tyre cord	Medium viscosity, contains no lubrication, good strength and barrier properties

## TRUCIRCLE™ PCR (Post Consumer Recycled Resin)

PROCESS	GRADE	MFR, g/10min	PCR%	APPLICATION	CHARACTERISTICS
Injection Molding	T2R223S	<sup>17</sup> (300°C/1.2Kg)	20%*	Wall plate, smart audio, cellphone protection case	UV stabilized PC, UL94 V2 rating
	T5R141R(C)	<sup>10</sup> (300°C/1.2Kg)	50%*	Transparent electric housing, phone / pad protection case	Transparent PC, UL94 HB rating
	T3R505RU	<sup>10</sup> (300°C/1.2Kg)	30%*	Electric enclosure, connectors	10% glass fiber filled FR PC
	T9R945(M)	<sup>10</sup> (300°C/1.2Kg)	90%*	Adaptor, charger, battery enclosures, EV charger	FR-PC, UL94 V0 & 5VA rating
	T3RXC620S	<sup>20</sup> (260°C/5Kg)	30%	Automotive interior and exterior	NFR PC / ABS, excellent properties retention after hydrolytic and heat aging
	T6RC1200HF	<sup>21</sup> (260°C/2.16Kg)	60%*	Automotive interior and exterior, lighting, consumer electronic, telecommunication	Non-FR PC / ABS
	T3RCY4000	<sup>25</sup> (260°C/2.16Kg)	30%	Game player, electrical housing	FR PC / ABS, non-chlorinated, non-brominated flame retardant, UL94 V0 rating
	T3RCY6025	<sup>28</sup> (260°C/2.16Kg)	30%*	Electric housings	FR PC / ABS, non-chlorinated, non-brominated flame retardant, UL94 V0 & VB rating
	T3RC7230P	<sup>12</sup> (260°C/2.16Kg)	30%	Electric housing	Filled FR PC / ABS, UL94 V0 & VB rating, non-chlorinated, non-brominated flame retardant
	T5RC7230P	<sup>12</sup> (260°C/2.16Kg)	50%		

\* PCR content is able to expand to more choices, contact SABIC for more information.

## BR (POLYBUTADIENE RUBBER)

PROCESS	GRADE	MV ML(1+4) @100°C	CIS 1,4 (%)	APPLICATIONS	CHARACTERISTICS
Extrusion Molding Calendering	4010	40 +/- 5	96 Min	<ul style="list-style-type: none"> <li>• Tire tread, sidewall and carcass</li> <li>• Conveyor belt coverings</li> <li>• Shoe sole, hoses and tube covers</li> <li>• Mechanical and sporting goods</li> </ul>	<p>Low Mooney grade generally used in blends with other elastomers and is designed for</p> <ul style="list-style-type: none"> <li>• Good abrasion resistance</li> <li>• Excellent flex cracking resilience</li> <li>• Good low temperature properties</li> <li>• Low cold flow property</li> <li>• Excellent filler dispersion and shorter mixing cycles</li> <li>• Low die-swell and good dimensional control</li> </ul>
	4610	46 +/- 5	96 Min		<p>Medium Mooney grade generally used in blend with other elastomers and is designed for</p> <ul style="list-style-type: none"> <li>• Excellent abrasion resistance</li> <li>• Excellent flex cracking resistance</li> <li>• Excellent resilience</li> <li>• Good low temperature properties</li> <li>• Low rolling resistance</li> </ul>
	5510	55 +/- 5	96 Min		<p>High Mooney grade generally used in blend with other elastomers and is designed for</p> <ul style="list-style-type: none"> <li>• Excellent abrasion resistance</li> <li>• Excellent flex cracking resistance</li> <li>• Excellent resilience</li> <li>• Good low temperature properties</li> <li>• Low rolling resistance</li> </ul>
	4510	45 +/- 5	96 Min		<p>Medium Mooney grade generally used in blends with other elastomer and is designed for</p> <ul style="list-style-type: none"> <li>• Good abrasion resistance</li> <li>• Excellent resilience and flex-cracking resistance</li> <li>• Good low temperature properties</li> <li>• Low cold flow tendency</li> <li>• Good processibility</li> <li>• Excellent filler dispersion and short mixing time</li> </ul>

## EPDM (ETHYLENE PROPYLENE DIENE RUBBER)

PROCESS	GRADE	MV ML(1+4) @125°C	ENB%	C2%	APPLICATIONS	CHARACTERISTICS
Extrusion, Injection Molding, Compression Molding, Calendering	756	72	5.0	69	Auto coolant, air hose, building profiles, industrial hoses, weather seals, wire and cable, TPV	Exhibits smooth and fast extrusion with tensile strength, compression set, and flexibility
	855	80	5.2	55	Automotive weatherseals, auto coolant, air hoses, industrial gaskets and O rings for pipes, hoses, and washing machine gasket, TPV	Fast mixing, extrusion, molding, and cure rate with good compression set properties at low and high temperature
	657	60	5.0	73	Extruded profiles, Automotive weatherseals, gaskets and seals, low voltage wires and cables insulation, TPV	Excellent processibility mixing, mill handling, tensile strength, tear strength, compression set, and flexibility
	245	25	4.5	50	Brake parts, molded foam sheets, precision seals, electrical connectors, gaskets, and hose mandrels, shoe sole	Fast cure rate and high cure state with good low temperature flexibility and compression set properties
	626	67	2.8	69	Sheets, water management liners, and roof membranes, shoe sole	Good calenderability, mixing, tensile strength, compression set, and flexibility

**DATA IN TABLE ARE TYPICAL VALUES  
AND SHOULD NOT BE CONSTRUED AS  
SPECIFICATION LIMITS**

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