

CHEMISTRY THAT MATTERS™

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SABIC INNOVATIVE SOLUTIONS

POLYOLEFINS PRODUCT BROCHURE (PE/PP)
Rest of Asia (ROA)



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POLYETHYLENE (PE)

SABIC PE delivers versatility, chemicals resistance, and durability for applications from films to containers, serving packaging, automotive, and construction industries.



SUPEER™ C6 MLLDPE (METALLOCENE LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	7118LA	1.0	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"> • C6 Comonomer • Excellent mechanical properties (dart impact, tear, puncture) and optical properties • Superior organoleptic (less odor/smell, low volatile) • Grade name with suffix L or W contains slip & anti-block agents • Grade name contain V suffix is phthalate-free
	7118A	1.0	0.918		
	7118LVA	1.0	0.918		
	7118VA	1.0	0.918		
	7118NM	1.2	0.919		
	7318WM	1.2	0.919		
Cast Film	7358A	3.5	0.918	Stretch wrap film	<ul style="list-style-type: none"> • C6 Comonomer • Excellent processability and organoleptic (less odor/smell, low volatile) • Excellent mechanical and optical properties
	7318BM	3.5	0.918		

COHERE™ POP (POLYOLEFIN PLASTOMER)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	8170D	1.0	0.868	Sealing layer of advanced flexible packaging (meat, cheese, dry foods- cookies, chips, cereal, liquid, stand-up pouch etc.)	<ul style="list-style-type: none"> • C8 Comonomer • Exceptional heat seal ability (low seal initiation temperature, excellent hot tack strength) • Excellent optics and toughness • Superb organoleptic properties • Easy processing
	8102(L)	1.0	0.902		
Cast Film	8402	3.5	0.902	Cling layer in stretch wrap film; Adhesive layer in surface protection film.	<p>Grade name with suffix L contains slip & anti-block agent</p> <p>Grade name with suffix D contains anticaking agent</p>
	8570D	5.0	0.868		

FORTIFY™ POE (POLYOLEFIN ELASTOMER)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Compounding Foaming Extrusion Casting	C0560D	0.5	0.863	Impact modification, footwear, fire & cable, seals & gasket, sports and recreation, film application, flooring and roofing	<ul style="list-style-type: none"> • C8 Comonomer • Exceptional toughness, flexibility, and elasticity • Excellent impact strength and low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compatibility with other polyolefin materials • Easy processing <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		
	C3080	3.0	0.880		
	C5070D	5.0	0.868		
	B1060	1.1	0.863		<ul style="list-style-type: none"> • C4 Comonomer • Exceptional toughness, flexibility, and elasticity • Good low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compatibility with other polyolefin materials • Easy processing
	B5060	5.0	0.865		
	B5075DP	5.0	0.872	PV Encapsulant	<ul style="list-style-type: none"> • C4 Comonomer • Good weathering resistance • No acid release • Moisture barrier • High transmittance • Excellent electrical properties
	B14075DP	14.0	0.872		
	C5075DP	5.0	0.873		
	C13075DP	13.0	0.873		

LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	118NM	0.9	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability. No slip and no anti-block
	118WM	0.9	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging	Very good mechanical strength and processability. High slip and anti-block
	118WJ	1.0	0.918	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength and processability. High slip and anti-block
	118NJ	1.0	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability. No slip and no anti-block
	118WSJ	1.0	0.918	Lamination film, food / non-food packaging, shopping bag	Good clarity. Contains slip & anti-block
	119NJ	1.0	0.919	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability. No slip and no anti-block
	119ZJ	1.0	0.919	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength and processability. Medium slip and anti-block
	120WJ	1.0	0.918	High clarity film for food / non-food packaging	Excellent clarity. Contains slip & anti-block
	122NJ	1.1	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability. No slip and no anti-block
	122WJ	1.1	0.921	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength and processability. High slip and anti-block
	218NM	2.0	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability. No slip and no anti-block
	218WM	2.0	0.918		Very good mechanical strength and processability. High slip and anti-block
	218WJ	2.0	0.918	Lamination film, food packaging, heavy duty packaging	Good mechanical strength, processability and clarity. Contains slip and anti-block
	218NJ	2.0	0.918	Agriculture film, lamination film, food / non-food packaging, shopping bag	No slip and no anti-block
	219NJ	2.0	0.918	Lamination film, food / non-food packaging, shopping bag	Very good processability. No slip and no anti-block
	219ZJ	2.0	0.918	Agriculture film, lamination film, food / non-food packaging, shopping bag	Very good processability. Medium slip and anti-block
	222WJ	2.2	0.921	Agriculture film, lamination film, food / non-food packaging, shopping bag	Very good processability. High slip and anti-block
	222NJ	2.2	0.921	Lamination film, food / non-food packaging, shopping bag	Very good processability. No slip and no anti-block
	Cast Film	218BJ	2.0	0.918	Cast stretch film cling film
318BJ		2.8	0.918		
319BJ		3.0	0.918		
320BJ		3.1	0.922		

LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Geomembrane Blown Film	GF1442	1.4 13(MI21)	0.942	Geomembrane	Excellent processability, Flow properties and mechanical properties
Wire & 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
Roto - Molding	R50035	5.0	0.935	Water tank, chemical 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, chemical tank, toy, road barrier, playground, furniture	Excellent grindability, Excellent stiffness and good balance between impact strength and ESCR, Contains UV additive
	R40035E	4.0	0.935	Rotomolded tanks/containers for chemicals/fuels for good chemical resistance and durability	Excellent ESCR and toughness, It contains UV additive
Injection Molding Masterbatch	M200024	20.0	0.924	Caps and closures (oil bottle, theft -proofing, etc.), houseware, masterbatch, metal coating, carpet backing	High flow ability with high gloss, low temperature toughness and good stress crack resistance
	MG200024	20.0	0.924	Masterbatch, Metal coating, Carpet backing	Granular, powder form easy dispersing and mixing with pigment
	M500026	50.0	0.926	Caps and closures, Houseware, masterbatch	Excellent flow ability, High gloss and toughness, Good stress crack resistance
	MG500026	50.0	0.926	Masterbatch, Metal coating, Carpet backing	Granular, powder form easy dispersing and mixing with pigment
Pipe	128CNJ	1.0	0.928	Telecommunication cables, electrical conduits, drip & 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 stress crack resistance
	P118	1.0	0.918	Non-pressure pipe, irrigation, cable conduits, corrugated & gravity pipe segments	Flexible, good mechanical property, can be blended with HDPE
	P218	2.0	0.918	Non-pressure pipe, irrigation, cable conduits, corrugated & gravity pipe segments	Flexible, good mechanical property, can be blended with HDPE

C6 LLDPE (HEXENE – 1 LINEAR LOWDENSITY POLYETHYLENE)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	6821NJ	0.8	0.921	Agriculture film, heavy duty bag, geo membrane, POF film, lamination film, food packaging, shrink film	HAO (high alpha olefin) as comonomer, Excellent mechanical properties - stiffness, tear resistance, No slip & no anti-block
	6135NJ	1.0	0.935	Lamination film, heavy duty bag / sack, collation shrink film, MDO (machine direction orientation) film, surface protection film	HAO (high alpha olefin) as comonomer, High stiffness – allow downgauging, High creep resistance, Good optical properties, Improved barrier properties
Cast Film	6318BJ	2.8	0.918	Stretch film, back sheet	HAO (high alpha olefin) as comonomer, Excellent mechanical properties – tensile, puncture & creep, Improved tear resistance
	6318BM	3.0	0.920		

LDPE (LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	HP0321NN	0.25	0.921	Collation shrink film, Greenhouse film, Heavy duty bag	Excellent toughness and puncture resistance
	HP0322NN	0.33	0.922		
	HP0323NN	0.30	0.923		
	HP0722NN	0.75	0.922	Medium – duty bag, Collation shrink film, lamination film, shopping bag, frozen food bag, bread bag	Very good toughness and film optical, easy processing, HP0723JN / HP0823JN 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		
	HP2022NN	2.0	0.922	Thin collation shrink film, lamination film, general purpose film, textile packaging and food bag	Very good processability, optical properties, HP2022JN/ HP2023JN / HP2025JN contains slip and antiblock
	HP2023JN	2.0	0.923		
	HP2023NN	2.0	0.923		
	HP2025JN	2.0	0.925		
	HP2025NN	2.0	0.923		
	HP2027LN	2.0	0.927	Medium / light collation shrink film, lamination film, pouch, FFS (Form Fill Seal)	Superior film stiffness and down-gauging potential, Excellent optical property, Easy processing, HP2027LN contains slip & antiblock
Cast Film	HP4025ZN	3.5	0.925	High clarity laundry bag, textile wrapping film, zip – lock bag	Excellent processability, Outstanding optical property, Good mechanical property, HP4025ZN / HP4023WN / HP4024WN contains slip and antiblock
	HP4023WN	4.0	0.923		
	HP4024WN	4.0	0.923		
	HP4024N	4.0	0.923		
	HP4027JN	4.0	0.927	Medium / light collation shrink film, lamination film, zipper bag, pouch	Superior film stiffness and down-gauging potential, Outstanding optical properties, Easy processing, HP4027JN contains slip and antiblock
	HP4027NN	4.0	0.927		
Extrusion Coating	7019EC	7.0	0.919	Paper coating, ALU foil coating, Film Lamination, raffia coating	Excellent processability, Auto-clave LDPE, 9019EC is designed for high line speed extrusion coating machine
	9019EC	9.0	0.919		
Injection / Masterbatch	HP7022	7.0	0.922	Caps & closure, lid, housewares, masterbatch compounding	Good mechanical and impact, High gloss, Easy processing
	HP7023	7.0	0.923		
	HP20023	20	0.923	Injection molding, color masterbatch, compounding	High flow ability, high loading and easy mixing with filler and pigment

LDPE (LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Foaming	2601X1	0.65	0.926	Packaging, building & construction process: extrusion	Excellent resin consistency, Good foam production stability, Broad MWD, High resin density, Contains Antiblock & Slip agents
	HP0824NDF	0.8	0.924	Automotive, sports and leisure, packaging, building & construction process: batch; extrusion with and without crosslinking	Excellent resin consistency, Good foam production stability
	2602X1	1.5	0.926	Packaging, building & construction process: extrusion	Excellent resin consistency, Good foam production stability, Broad MWD, High resin density, Contains antiblock & slip agents
	2202UO	1.9	0.922	Packaging, building & construction	Excellent resin consistency, Good foam production stability, Very broad MWD, Ultra melt strength
	2102XO	1.9	0.921	Automotive, sports and leisure, packaging, building & construction process: batch; extrusion with and without crosslinking	Excellent resin consistency, Good foam production stability, Broad MWD, High reactivity in crosslinking
	2402CXO	2.0	0.924	Automotive, sports and leisure, packaging process: batch; extrusion with crosslinking	Excellent resin consistency, Good foam production stability, High reactivity in crosslinking
	HP2024JDF	2.0	0.924	Automotive, sports and leisure, packaging, building & construction process: extrusion	Excellent resin consistency, Good foam production stability, Contains antiblock & slip agents
	HP2024NDF	2.0	0.924	Automotive, sports and leisure, packaging, building & construction process: batch; extrusion with and without crosslinking	Excellent resin consistency, Good foam production stability
	HP2022NDF	2.0	0.922	Automotive, sports and leisure, packaging, building & construction process: batch; extrusion with and without crosslinking	Excellent resin consistency, Good foam production stability, High reactivity
	2102X3	2.5	0.921	Automotive, sports and leisure, packaging, building & construction process: extrusion	Excellent resin consistency, Good foam production stability, Broad MWD, Contains antiblock & slip agents
	2004CX3	4.6	0.920	Automotive, sports and leisure, packaging process: extrusion with crosslinking	Excellent resin consistency, Good foam production stability, High reactivity in crosslinking, Contains antiblock & slip agents
	1905UO	5.0	0.919	Packaging, building & construction	Excellent resin consistency, Good foam production stability, Very broad MWD, Ultra melt strength
Pipe	P223	2.0	0.923	Non-pressure pipe, irrigation, cable conduits, corrugated & gravity pipe segments	Flexible, good mechanical property, can be blended with HDPE

ETHYLENE VINYL ACETATE (EVA)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Foaming Wire & Cable Compound	EVA2518DF	2.5	0.935	Foam (Footwear, sports, and leisure), wire & cable compound	It contains 18% vinyl acetate content, Excellent processability, good mechanical property

HDPE (HIGH DENSITY POLYETHYLENE) – UNIMODAL

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blow Film	FJ00952	0.05 9(MI21)	0.952	Bags -on-roll, T- shirt bag, shopping bag	Excellent processability and mechanical strength, TNPP free grade
	FJ01552	0.15 16(MI21)	0.952	Millinery and notion bags, deep freeze bags	Excellent processability and drawdown properties, TNPP free grade
	F04660	0.7 46(MI21)	0.961	Core- layer in Co-extruded film	High Stiffness, excellent water vapor barrier property
	F05060MD	0.7 46(MI21)	0.961	Specially design for MDO- PE Film, Core- layer in Co-extruded film	High Stiffness, very good gel control, excellent water vapor barrier property
Blow Molding	BM1052J	0.05 10(MI21)	0.952	Shipping container, industrial Container, Jerry cans	Excellent ESCR, processability and mechanical strength, TNPP free grade
	B5429	0.3 29(MI21)	0.954	Container for household and industrial chemicals	Very good processability, ESCR and mechanical properties
	B4660	0.7 46(MI21)	0.961	Bottles for milk, fruit juice, dairy products and water	Imparting high rigidity, toughness, good processability and lower odor, Balanced ESCR and stiffness
Injection Molding	CC453	4.0	0.953	Water and beverage bottle caps	Superior organoleptic properties, very good processability
	CC860	7.0	0.957		
	M40053S	4.0	0.953	Crate, pail, pallet, logistics box	High stiffness and toughness, Good ESCR properties, Contains UV stabilizer
	M40055S	4.0	0.955		
	M80064	8.0	0.964		
	M80063S M80064S	8.0	0.964		
	M200050	17	0.950	Houseware, cap and closure, cup, lamitube shoulder	High Flow ability, high stiffness
	M200056	20	0.956		
M300054	30	0.954			
IBC (Intermediate Bulk Container)	ICP4507S	0.22(MI5) 7(MI21)	0.952	Bulk containers and heating oil tank	UV stabilized, Food grade, good processing performance, excellent ESCR, balance impact toughness

HDPE (HIGH DENSITY POLYETHYLENE) - MULTIMODAL

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blow Film	F00752AM	0.22(MI5) 7(MI21)	0.952	Trash bin liners, shopping bag, carrier bag	Excellent toughness, Easy to process, high filler load
	F01257AM	0.4(MI5) 12(MI21)	0.957	Trash bin liners, shopping bag, carrier bag	Superior stiffness, Easy to process, high filler loading
	FI0851P	0.05(MI2) 9(MI21)	0.951	Grocery sacks, shopping bags, refuse bags, thin films for bag on roll	Excellent processability, high film strength and stiffness
	FI0750	0.22(MI5) 7.5(MI21)	0.950	Heavy duty bags, grocery sacks, shopping bags, refuse bags, liners for multi-wall sacks and liners for frozen food meat	Balanced between toughness and stiffness, good impact properties with low gel level
Blow Molding	B5428	0.3(MI2) 28(MI21)	0.954	Small bottle <5L for various applications including Container for household and industrial chemicals etc.	Imparting high rigidity, toughness, good processability and lower odor, Balanced ESCR and stiffness
	B5822M	1.2(MI5) 22(MI21)	0.958		
	B5628	0.32(MI2) 24(MI21)	0.955		
	B1054M	0.43(MI5) 9.5(MI21)	0.954	Small to medium container <20L	Balanced ESCR and stiffness
	B1254	0.14(MI2) 13(MI21)	0.955	Designed for standard jerry cans for packaging of dangerous goods, food and non-food product	Very good processability, balanced ESCR and stiffness
	B5308	8.0(MI21)	0.953	Specifically designed for bow molded floats for floating photovoltaic (PV) panel system	Excellent mechanical properties, very good toughness and stiffness balance, long lifetime and easy blow molding processability, high ESCR
Compression Molding / Injection Molding Caps & Closure	CC027C	0.8(MI2)	0.953	CSD caps	High stiffness and toughness, Good ESCR properties
	CC027SL	0.8(MI2)	0.953		
	CC255C	1.5	0.955		
	CC255SL	1.5	0.955		
	CC458	4.0	0.958	Water caps and Closure	Organoleptic properties good processability , good ESCR properties

HDPE (HIGH DENSITY POLYETHYLENE) - MULTIMODAL

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Pipe Extrusion	P6006	0.23(MI5) 6.2(MI21)	0.959	Gas, water, sewage, corrugated & spiral pipes	Black, PE100, multimodal pressure pipe and excellent stress crack resistance (ESCR) properties
	P6006N	0.23(MI5) 6.2(MI21)	0.949		Natural, PE4710, multimodal and excellent stress crack resistance (ESCR) properties
	P6006NA	0.23(MI5) 6.2(MI21)	0.949		Natural, designed to be PE4710, Multimodal and excellent stress crack resistance (ESCR) properties
	P4808N	0.23(MI5) 6.5(MI21)	0.949	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe segment	Natural, multimodal, and excellent stress crack resistance (ESCR) properties
	P4808NA	0.23(MI5) 6.5(MI21)	0.949		
	P5305N	4.5(MI21)	0.953		
	P5307N	7.0(MI21)	0.953		
	P5616N	16(MI21)	0.956		
	P6006AD	0.23(MI5) 6.4(MI21)	0.959	Pressure pipe for potable water, gas sewage and other liquid	Black, PE112 (class MRS 11.2MPa) specially designed for pressure pipe application. It delivers exceptional processing performance
	P6006LS	0.23(MI5) 6.4(MI21)	0.960	Pressure pipe for potable water, gas sewage. Useful for large diameter pipes and pressure pipes with low standard dimension ratio (SDR)	Black, PE112, multimodal, delivers exceptional low sag performance, low sagging grade particularly for large diameter pipes
	P4200RT	0.45(MI5) 9.5(MI21)	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 very long-term hydrostatic strength, high heat and extremely high extraction stability
	P952	0.33(MI5) 9.0(MI21)	0.952	Non-Pressure pipe, irrigation, cable ducts, corrugated & gravity pipes, sheets	Good processability
Wire & Cable	WC0548	1.8(MI5)	0.948 (base) 0.960 (Compound)	Black, cable jacketing for OFC, medium voltage cable	Black compound with excellent processability and physical properties. It contains 2.5% carbon black



POLYPROPYLENE (PP)

SABIC PP offers high stiffness, chemical resistance, and lightweight performance for automotive, consumer goods, and flexible or rigid applications.



HOMOPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Raffia	5052P	1.9	Woven bag, flexible intermediate bulk container (FIBC), rope & twines, carpet backing, geotextiles & concrete reinforcement	Consistent processability & good mechanical properties
	500P	3		
	5001P	3		
	5002P	3.4		
	5061PR	4	Low denier tapes, woven bags, carpet backing & concrete reinforcement	Good high line speed process ability, good mechanical properties
	5061P	4		
	506P	4.8		

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Fiber Extrusion	5161A	3.5	Staple fiber (SF) & geotextiles	Superior tensile properties & gas fading resistance
	510P	12	Continuous fiber (CF) & SF	Consistent processability, thread line stability, color consistency, Gas fading resistance
	5101AR	15		
	518P	25	Low denier tapes, woven bags, carpet backing & concrete reinforcement	Consistent processability, thread line stability, color consistency
	518A	25		Consistent processability, thread line stability, Color consistency & Gas fading resistance
	511A	25		
	512A	25		
	5112A	25		
	5192A	33		
	519A	35		
	514M14	1400		

HOMOPOLYMER POLYPROPYLENE

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
BOPP Film Extrusion	524P	2	Core layer in co-extruded BOPP (biaxially oriented polypropylene) film, plain BOPP film	Excellent optical properties, High tensile strength, metalizable
	521P	3		Excellent optical properties, high tensile strength, metalizable
	5231P	3		High Speed BOPP film with excellent stretchability
	5232P	3		
	5233P	3		
		5212P		3
Thermoforming	522K	3	Cup, trays, lids & various thin wall containers	High stiffness, very good clarity and aesthetics, very good dimensional stability
	528K	3		High stiffness, good clarity, good dimensional stability
	5271K	3		Very high stiffness, very good clarity & good dimensional stability
High Stillness CPP Film	5261P	7	Core layer in co-extruded CPP (cast polypropylene) film, plain CPP film	High gloss & clarity, high melt strength metalizable
CPP Film Extrusion	526P	8		
IPP Film Extrusion	520L	10	Used for inflated polypropylene (IPP) film process for producing garment & textiles bag, magazine covers, food packaging	High gloss & clarity, high melt strength metalizable
	5202L	11		

HOMOPOLYMER POLYPROPYLENE

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	570P	8	Household articles, caps & closures, containers, toys, furniture	Consistent processability, good gloss & dimensional stability
	575P	11		
	5704PR	11		
	5703P	12		
	5706P	12		
	5705P	15		
	5705PR	15		
	PCGH24	24	Healthcare applications	Phthalate-free and peroxide-free polypropylene homopolymer, produced under controlled conditions resulting in high product quality, consistency, and a high level of purity
	5707N	24	Housewares, thin wall packaging, caps & closures & garden furniture	Consistent processability, Fast molding cycle, good gloss & clarity, high stiffness
	5780P	25	Household articles, toys & thin wall packaging	
	579S	47	Housewares, thin wall packaging, appliances, caps & closures	Low warpage, high stiffness, outstanding flowability, good contact transparency & high gloss
	5792S	53		High stiffness, good clarity, good dimensional stability

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Compounding	591A	6	Automotive compounding applications where high rigidity and good thermal characteristics are required	Medium flowability, high stiffness & formulated with dedicated automotive additive package
	595A	47		High flowability, high stiffness & formulated with a dedicated automotive additive package

RANDOM COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS	
Pipe Extrusion	P9421	0.3	Hot & cold-water high-pressure pipe	High molecular weight and highly heat stabilized and especially formulated for extraction resistance	
	QR6701K	10	Clear housewares & packaging items, appliances, caps & closures, lids & ISBM bottles	Consistent processability, good stiffness, excellent clarity, lower energy consumption & less cycle time due to low processing temperatures	
	6702K	11			
Injection Molding	QR6731K	25	Clear housewares items, caps & closures, food containers, ISBM bottles, lids & CD boxes	Excellent demolding characteristics and has a good stiffness to impact ratio, produced under controlled conditions resulting in high product quality, consistency and a high level of purity	
	PCGR45	45	Healthcare applications		
	QR6711K	45	Clear thin-walled containers & boxes, housewares, caps & closures, lids	Consistent processability, good stiffness, excellent clarity, low warpage, high flowability, lower energy consumption & less cycle time due to low processing temperatures	
	6712K	48			
		QR6771K	70	Clear thin-walled containers & boxes, housewares	Consistent processability, good stiffness, excellent clarity, low warpage, very high flowability, lower energy consumption & less cycle time due to low processing temperatures

IMPACT COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	55M10	4.2	Pails, crates, housewares & thermoformed thin wall packaging	Good processability, very high impact resistance at low temperature & medium stiffness
	36MK10	5.5	Battery cases, crates, pails, furniture, houseware	Good processability, Impact and stiffness balance
	36MK10R	5.5		
	46MNK45	6	CSD caps & closure	Good Impact-stiffness balance, good dimension stability, lower stress whitening
	56M65	7	Battery cases, pails & containers, crates & boxes	Excellent long-term heat resistance, medium impact resistance & low warpage tendency
	76M10	7	Automotive, compounding, consumer product and rigid packaging	Excellent toughness and good organoleptic
	37MK10R	9	Battery cases, pails & containers, crates & boxes	Good Impact-stiffness balance, high stiffness and good dimensional stability
	37MK10	9		
	37M10R	9		Good Impact-stiffness balance and good dimensional stability
	37MCX10R	10	Typically used for industrial injection molding application	High modulus impact copolymer & good heat stability, high gloss
	57MNK10	12	Garden furniture, housewares, pails & containers, toys, crates & boxes	High stiffness & medium impact resistance
	57MNK40	12		
	48MK40	16	Pails & containers, housewares, garden furniture, crates & boxes	Medium flowability, medium stiffness & impact resistance
	49MCX40	18	Furniture; Replacement of ABS and HIPS in small appliances, housing for electrical appliances	High crystalline impact copolymer with outstanding mechanical properties, high gloss
	49MK45	21	Pails & containers, housewares, garden furniture, crates & boxes, appliance	Medium flowability, medium stiffness & impact resistance
	310MK10	24.5	Appliance, compounding, crate	Good process-ability, medium impact-stiffness balance and good isotropic shrinkage
	310MK40	24.5		
	311MK10R	30	Crates, pails, electrical and industrial applications	Good impact, high stiffness and good heat stability
	311MCX10R	30	Compounding for automotive, appliance, electric applications	Good impact, high gloss, high stiffness and good heat stability
	511MK46	30	Home appliance parts, automotive interior & exterior, housewares, compounding	Good process-ability, medium impact-stiffness balance

IMPACT COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	312MK10	39	Appliance, Thin wall container, compounding and crate	Good process-ability, medium impact-stiffness balance, high stiffness and good isotropic shrinkage
	312MK10R	39		
	312MK40	39		
	412MK10	42	Houseware opaque container, toys and appliances	Good process-ability with medium stiffness impact balance
	412MK49	45		
	FPC75	70	Thin wall injection molded articles	Very fast molding cycle & good impact resistance
	513MN40	70		
	413MK40	70		
	FPC105	100		
	313MK40	100		Ultra fast molding cycle & good impact resistance

TERPOLYMER POLYPROPYLENE

PROCESS	GRADE	MI,g/10min (ASTM D 1238, 230°C, 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Film Extrusion	827B	6	Skin layer (metallize-able film) to improve bonding to aluminum	Excellent seal strength, optical properties and good bonding with aluminum
	827L	8	Sealing layer in lamination film for food packaging, etc.	Excellent seal strength, optical properties and good toughness

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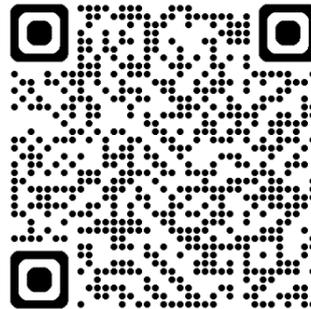
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