

# DIVERSIFIED AND DEDICATED SOLUTIONS

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



## PRODUCT CATEGORY

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## COHERE™ POP (POLYOLEFIN PLASTOMER)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	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 and etc) Cling layer in stretch wrap film; Adhesive layer in surface protect film	<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</li> <li>• Easy processing</li> </ul>		
	8185	1.0	0.885				
	S100(L)	1.0	0.900				
	8102(L)	1.0	0.902				
Cast Film	8570D	5.0	0.868			Grade name with suffix L contains slip & antiblock agents	
	8380	3.0	0.880				Grade name with suffix D contains anticaking agent
	S400	3.5	0.900				
	8402	3.5	0.902				

## SUPEER™ mPE (METALLOCENE POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	8112(L)	1.1	0.912	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>• C8 comonomer, bimodal</li> <li>• Excellent mechanical properties (dart impact, tear and puncture) and optical properties</li> <li>• Excellent sealability and processability</li> <li>• Superior organoleptic (less odor/smell, low volatile)</li> </ul>
	8115(L)	1.1	0.915		
Cast Film	8315	3.0	0.915	Stretch wrap film, silage film	<ul style="list-style-type: none"> <li>• C8 comonomer, bimodal</li> <li>• Excellent processability and organoleptic (less odor/smell, low volatile)</li> <li>• Excellent mechanical and optical properties</li> </ul>
Pipe	P8200RT	0.5	0.941	Designed to be PE-RT type II. Underfloor heating and multilayer pipes for heating and plumbing	<ul style="list-style-type: none"> <li>• C8 comonomer, bimodal</li> <li>• Excellent long term hydrostatic strength, with outstanding stress crack, resistance and superior processability</li> </ul>

## 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	C0570(D)	0.5	0.868	<ul style="list-style-type: none"> <li>• PP modification</li> <li>• Footwear</li> <li>• Wire &amp; Cable</li> <li>• Grafting for polyamide modification</li> <li>• Photovoltaic Encapsulation</li> </ul>	<ul style="list-style-type: none"> <li>• C8 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 compability 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>
	C1055D	1.0	0.857		
	C1070(D)	1.0	0.868		
	C1085	1.0	0.885		
	C3080	3.0	0.880		
	C5070(D)	5.0	0.868		
	C5075DP	5.0	0.873		
	C13060(D)	13.0	0.863		
	C13075DP	13.0	0.873		
	C30070D	30.0	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)
	118NM	0.9	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability, No slip & antiblock
	118WM	0.9	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability, High slip & antiblock
	118WJ	1.0	0.918	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength and processability, High slip & antiblock
	118NJ	1.0	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability, No slip & antiblock
	118WSJ	1.0	0.918	Lamination film, food/nonfood packaging, shopping bag	Good clarity, contains slip and antiblock
	119NJ	1.0	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability, No slip & antiblock
	119ZJ	1.0	0.918	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength and processability, Medium slip & antiblock
	120WJ	1.0	0.918	High clarity film for food/non-food packaging	Excellent clarity, contains slip and antiblock
	122NJ	1.0	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength and processability, No slip & antiblock
	122WJ	1.1	0.921	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength, clarity and processability High slip & antiblock
	218NM	2.0	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength, clarity and processability No slip & antiblock
	218WM	2.0	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Very good mechanical strength, clarity and processability High slip & antiblock
	218WJ	2.0	0.918	Lamination film, food/nonfood packaging, shopping bag	Good mechanical strength, processability and clarity, contains slip & 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	218NJ	2.0	0.918	Agriculture film, Lamination film, food/non-food packaging, shopping bag	No slip and antiblock
	219NJ	2.0	0.918	Lamination film, food/nonfood packaging, shopping bag	Very good processability, No slip & antiblock
	219ZJ	2.0	0.918	Agriculture film, Lamination film, food/nonfood packaging, shopping bag	Very good processability, Medium slip & antiblock
	222WJ	2.2	0.921	Agriculture film, Lamination film, food/nonfood packaging, shopping bag	Very good processability, High slip & antiblock
	222NJ	2.2	0.921	Lamination film, food/nonfood packaging, shopping bag	Very good processability, No slip & 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, very good mechanical, optical properties and stretchability
	318BJ	2.8	0.918		
	319BJ	3.0	0.918	Cast stretch film for both manual and machine wrap, food cling film	High heat stabilization, excellent processability, very good mechanical, optical properties and stretchability
	320BJ	3.0	0.922		

## C6 LLDPE (HEXENE-1 LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
<b>C6 LLDPE Blown Film</b>	6118NM	0.9	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Excellent mechanical strength and processability No slip & antiblock
	6118WM	0.9	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Excellent mechanical strength and processability High slip & antiblock
	6124NM	0.9	0.924	Downgauging, high stiffness lamination film, food packaging, shrink film	Excellent stiffness, good processability No slip & antiblock
	6128NM	0.9	0.928	Downgauging, high stiffness lamination film, food packaging, shrink film	Excellent stiffness, good processability No slip & antiblock
<b>C6 LLDPE Cast Film</b>	6318BM	3.0	0.920	Stretch cling film, backsheet, wire and cable compound	Excellent mechanical properties and good processability No slip & antiblock
<b>C6 LLDPE Roto Moulding</b>	R6438EM	3.8	0.940	Water tank, chemical tank, toy, road barrier, Playground, furniture. Cap and closure	Excellent grindability Excellent stiffness and good balance between impact strength and ESCR

SUPEER™ mLLDPE (METALLOCENE LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
<b>mLLDPE Blown Film</b>	7118NM	1.2	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Superior toughness, high seal performance No slip & antiblock
	7118WM	1.2	0.921	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Superior toughness, high seal performance High slip & antiblock
	7126NM	1.2	0.926	Downgauging, high stiffness lamination film, food packaging, shrink film	Excellent stretchability properties and good processability No slip & antiblock
	7218NM	2.0	0.919	Downgauging, high stiffness lamination film, food packaging, shrink film	Good seal performance High slip & antiblock
	7218WM	2.0	0.920	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Good seal performance High slip & antiblock
<b>mLLDPE Cast Film</b>	7318BM	3.5	0.918	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Excellent stretchability properties and good processability No slip & antiblock



## LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	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. Cap and closure	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 High UV stabilization

## LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding Masterbatch	M200024	20.0	0.924	Cap and closure (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	Granules, easy dispersing and mixing with pigments
	M500026	50.0	0.926	Cap and closure, houseware, masterbatch	Excellent flow ability, high gloss and toughness, good stress crack resistance
	MG500026	50.0	0.926	Masterbatch, metal coating, carpet backing	Granules, easy dispersing and mixing with pigments
Pipe	128CNJ	1.0	0.928	Telecommunication cables, electrical conduits and 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

## 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	Very 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	Very 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		
	HP2027LN	2.0	0.927	Medium / light collation shrink film, lamination film, pouch, FFS (fill, form and seal)	Superior film stiffness and down-gauging potential Excellent optical properties Easy processing HP2027LN contains slip & antiblock
HP2027NN	2.0	0.927			

## 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		
	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 & antiblock
	HP4027NN	4.0	0.927		
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 & closure, lid, housewares, master batch compounding	Good mechanical and impact High gloss Easy processing
	HP7023	7.0	0.923	Cap & closure, lid, housewares, 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

## LOW DENSITY POLYETHYLENE (LDPE)

PROCESS	GRADE	MI,g/10min (190°C/2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Foaming	1905U0	5.0	0.919	Packaging, Building & Construction	Excellent resin consistency Good foam production stability Very broad MWD Ultra Melt Strength
	2202U0	1.9	0.922		
	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 Anti Block & Slip agents
	2102X0	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
	2102X3	2.5	0.921	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Extrusion	Excellent resin consistency Good foam production stability Broad MWD Contains Anti Block & Slip agents
	2402CX0	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
	2502X0	2.0	0.925	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Extrusion	Excellent resin consistency Good foam production stability Broad MWD High resin density
	2601X1	0.65	0.926	Packaging, Building & Construction Process: Extrusion	Excellent resin consistency Good foam production stability Broad MWD High resin density Contains Anti Block & Slip agents
	2602X1	1.5	0.926		
	HP2024JDF	2.0	0.924	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Extrusion	Excellent resin consistency Good foam production stability Contains Anti Block & 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
	HP0824NDF	0.8	0.924		
	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

## 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	Very good processability, ESCR and mechanical properties	
	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	
	B4660AB	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	
Injection Molding	CC453	4.0	0.953	Water and beverage bottle caps	Superior organoleptic properties, very good processability	
	CC860	7.0	0.957	Water and beverage bottle caps	Superior organoleptic properties, very good processability	
	CC861	7.0	0.954	Water and beverage bottle caps	Superior organoleptic properties, very good processability	
	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		High stiffness and toughness Good ESCR properties Contains UV stabilizer	
	M40060S	4.0	0.960		Good toughness and rigidity. contains UV stabilizer	
	M75056F	7.5	0.956		High toughness, low warpag	
	M80060	8.0	0.960		High toughness and rigidity, low warpage	
	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, cup, lamitube shoulder	High flow ability, high stiffness
	M200054F	20	0.954			
	M200056	20	0.956			
M300054	30	0.954				

## HDPE (HIGH DENSITY POLYETHYLENE) - UNIMODAL

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
	M200050	17	0.950	Houseware, cap and closure, cup, lamitube shoulder	High flow ability, high stiffness
	M200054F	20	0.954		
	M200050	20	0.956		
	M300054	30	0.954		
<b>Injection Moulding</b>	M40055M	3.6	0.955	Pallets and dustbins	High toughness

## HDPE (HIGH DENSITY POLYETHYLENE) - MULTIMODAL

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	F00752AM	0.22 (MI5) 7 (HLMI)	0.952	Trash bin liners, shopping bag, carrier bag	Excellent toughness, easy to process, high filler load
	F00954AM	0.3 (MI5) 8.8 (HLMI)	0.954	Trash bin liners, shopping bag, carrier bag	Excellent balance between stiffness and toughness, easy to process, high filler load
	F01257AM	0.4 (MI5) 12(HLMI)	0.957	Trash bin liners, shopping bag, carrier bag	Superior stiffness, easy to process, high filler load
	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 rigidity
	F00851	0.3 29(MI21)	0.952		
	FI0750	0.7 46(MI21)	0.95		
Blow Molding	B5428	0.3(MI2) 28(MI21)	0.954	Bottles for milk, fruit juice, dairy products and water	Imparting high rigidity, toughness, good processability and lower odour
	B5822	1.2(MI5) 22(MI21)	0.958		
	B5822M	1.2 (MI5) 22 (HLMI)	0.958	Small bottles (<5L)	Balanced ESCR and stiffness
	B1054	0.45(MI5) 9.5(MI21)	0.954	Designed for standard and lightweight jerry cans, food contact approval container	Very good ESCR, processability and high stiffness with good impact strength
	B1054M	0.43 (MI5) 9.5 (HLMI)	0.954	Small to medium container (<20L)	Balanced ESCR and stiffness
	B5403	2.6(MI21)	0.954	Tight and open head drum	Excellent combination of stiffness and ESCR with good impact strength
	B5403M	2.7(HLMI)	0.954	Large drum, L-rings, IBC	Excellent processability, good ESCR, Good chemical resistance
	B5308	8.0(MI21)	0.953	Specifically designed for blow molding floaters for floating photovoltaic (PV) panel systems "	Excellent mechanical properties, very good toughness and stiffness balance, long lifetime and easy blow molding processability, high ESCR.
	B4660	0.7 46(MI21)	0.961	Bottles for milk, fruit juice, dairy products and water	Imparting high rigidity, toughness, good processability and lower odour
Yarn	Y10048M	1.8 (MI5) 20 (HLMI)	0.950	Yarn, rope, nett, tape, oriented film	High tensile yarn, tape, oriented film
Compression molding / Injection molding	CC027C	0.8(MI2)	0.953	Carbonated soft drink cap	Excellent ESCR, processability and organoleptic propertie
	CC027SL	0.8(MI2)	0.953		Contains slip, Excellent ESCR, high stiffness, processability and organoleptic properties

## HDPE (HIGH DENSITY POLYETHYLENE) - MULTIMODAL

PROCESS	GRADE	Ml,g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
<b>Industrial Container Products</b>	ICP 4507S	0.22 (MI5) 7 (HLM1)	0.952	Bulk Containers and Heating Oil Tanks	UV-stabilized, food approved grade, good processing performance, excellent ESCR, balanced impact toughness
<b>Caps &amp; Closure</b>	CC254M	0.3 (MI5) 8.8 (HLM1)	0.954	Trash bin liners, shopping bag, carrier bag	Low organoleptic, easy to process
<b>Pipe Extrusion</b>	P6006	0.4 (MI5) 12(HLM1)	0.957	Gas, water, sewage pipes and corrugated & spiral pipes	Black, PE 100, Multimodal, pressure pipe and excellent stress crack resistance properties (ESCR)
	P6006N	0.05(MI2) 9(MI21)	0.951	Gas, water, sewage pipes and corrugated & spiral pipes	Natural, PE 4710, Multimodal and excellent stress crack resistance properties (ESCR)
	P6006NA	0.3 29(MI21)	0.952		Natural, designed to be PE4710, Multimodal and excellent stress crack resistance properties (ESCR)
	P6006ADM	0.7 46(MI21)	0.95		Black, PE 100, Multimodal, pressure pipe and excellent stress crack resistance properties (ESCR)
	P5410NM	0.3(MI2) 28(MI21)	0.954		Natural color for non-pressure pipe
<b>Wire &amp; Cable</b>	C0549	1.8 (M15)	0.948 (base) 0.960 (final)		Black Cable Jacketing for medium voltage



## 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		
	519A	35		
	5192A	33		
	514M14	1400		

## HOMOPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
<b>BOPP Film Extrusion</b>	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	High Stiffness BOPP for labels	High crystallinity, very high stiffness, tensile properties & metalizable
<b>CPP Film Extrusion</b>	5262P	7	Core layer in co-extruded CPP (cast polypropylene) film, plain CPP film	High gloss & clarity, high melt strength metalizable
	526P	8		
<b>IPP Film Extrusion</b>	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		
<b>Thermoforming</b>	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

## HOMOPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, 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		
	5703P	12		
	5706P	12		
	5704PR	11		
	5705P	15		
	5705PR	15		
	5707N	24	Housewares, thin wall packaging, caps & closures & garden furniture.	Consistent processability, fast molding cycle, good gloss & clarity, high stiffness
	5707PR	25	Household articles, toys & thin wall packaging	
	5780P	25		
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	MFR, 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	MFR, g/10min (ASTM D 1238, 230°C/ 2.16kg)	TYPICAL APPLICATIONS	CHARACTERISTICS
Injection Molding	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		
	QR6731K	25	Clear housewares items, caps & closures, food containers, ISBM bottles, lids & CD boxes	
	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
Pipe Extrusion	P9421	0.3	Hot & cold water high pressure pipe	High molecular weight and highly heat stabilised and especially formulated for extraction resistance.

## IMPACT COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, 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
	57MNK10	12	Garden furniture, housewares, pails & containers, toys, crates & boxes	High stiffness & medium impact resistance
	57MNK40	12		
	38MK10R	16	Pails & containers, housewares, garden furniture, crates & boxes	Medium flowability, medium stiffness & impact resistance
	48MK40	16		
	49MCX40	18	Furniture; Replacement of ABS and HIPS in Small Appliances, Housing for Electrical Appliances	high crystalline impact copolymer with outstanding mechanical properties. Good process-ability and impact stiffness balance
	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
	310MK10R	24.5		
	310MK40	24.5		
	511MK46	30	Home appliance parts, automotive interior & exterior, housewares, compounding	Good process-ability, medium impact-stiffness balance

## IMPACT COPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, 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
	413MK40	70		
	313MK40	100		Ultra fast molding cycle & good impact resistance

## TERPOLYMER POLYPROPYLENE

PROCESS	GRADE	MFR, 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 aluminium
	827L	8	Sealing layer in lamination film for food packaging, etc.	Excellent seal strength, optical properties and good toughness

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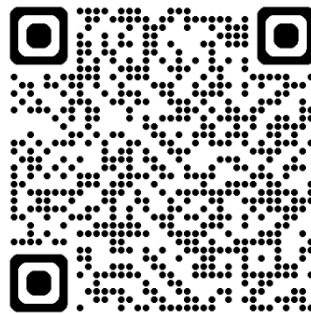
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