

LG Chemical LUPOL HF5157 PP+Rubber+MF, High Flow and Stiffness, High Impact

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced, Impact Modified

Material Notes:

Description: Injection Molding, PP+Rubber+MF, High Flow and Stiffness, High Impact, Good Weatherability, Scratch Resistance
Application: Automotive Exterior (Slim wall Bumper Fascia)
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-HF5157-PPRubberMF-High-Flow-and-Stiffness-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0090 - 0.010 cm/cm @Thickness 3.20 mm	0.0090 - 0.010 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	38 g/10 min @Load 2.16 kg, Temperature 230 Â°C	38 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.6 MPa @Thickness 3.20 mm	2990 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	120 % @Thickness 3.20 mm	120 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	15.7 MPa @Thickness 6.40 mm	2280 psi @Thickness 0.252 in	10mm/min; ASTM D790
Flexural Modulus	1.86 GPa @Thickness 6.40 mm	270 ksi @Thickness 0.252 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 0.608 J/cm @Thickness 6.40 mm, Temperature -10.0 Â°C	>= 1.14 ft-lb/in @Thickness 0.252 in, Temperature 14.0 Â°F	ASTM D256
	>= 4.71 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	>= 8.82 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Middle Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Front Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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