

LG Chemical LUMID HI5003A PA6/PO, High Impact, High Flow, Good Paintability

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Feature: Injection Molding, PA6/PO, High Impact, High Flow, Good Paintability
Application: Automotive Exterior Parts
CAS No. 25038-54-4, 9010-79-1, 9003-07-0 and 14807-96-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5003A-PA6PO-High-Impact-High-Flow-Good-Paintability.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	0.50 % @Temperature 23.0 Â°C, Time 86400 sec	0.50 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.014 - 0.015 cm/cm @Thickness 3.20 mm	0.014 - 0.015 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 235 Â°C	3.5 g/10 min @Load 4.76 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa @Thickness 3.20 mm	7400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	50 % @Thickness 3.20 mm	50 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	70.6 MPa @Thickness 6.40 mm	10200 psi @Thickness 0.252 in	10mm/min; ASTM D790
Flexural Modulus	2.06 GPa @Thickness 6.40 mm	299 ksi @Thickness 0.252 in	10mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.40 mm, Temperature -30.0 Â°C	2.20 ft-lb/in @Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	4.51 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	8.45 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	162 Â°C @Thickness 6.40 mm	324 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Injection Molding
Middle Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Injection Molding
Front Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Injection Molding
Nozzle Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Melt Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding
Drying Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 70 rpm	30 - 70 rpm	Injection Molding

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