

LG Chemical LUMID HI5001AH PA6/PO, High Melt Strength, High Barrier property, CaCl₂ Resistance

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

Material Notes:

Feature: Injection Molding, PA6/PO, High Melt Strength, High Barrier property, CaCl₂ Resistance
Application: Automotive (Fuel System Tube)
CAS No. 25038-54-4, 9010-79-1 and 9002-88-4
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5001AH-PA6PO-High-Melt-Strength-High-Barrier-property-CaCl₂-Resistance.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5001AH-PA6PO-High-Melt-Strength-High-Barrier-property-CaCl2-Resistance.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 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
Melt Flow	3.0 g/10 min @Load 12.5 kg, Temperature 260 Â°C	3.0 g/10 min @Load 27.6 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	320 % @Thickness 3.20 mm	320 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	48.1 MPa @Thickness 6.40 mm	6970 psi @Thickness 0.252 in	10mm/min; ASTM D790
Flexural Modulus	1.32 GPa @Thickness 6.40 mm	192 ksi @Thickness 0.252 in	10mm/min; ASTM D790
Izod Impact, Notched	2.55 J/cm @Thickness 6.40 mm, Temperature -40.0 Â°C	4.78 ft-lb/in @Thickness 0.252 in, Temperature -40.0 Â°F	ASTM D256
	NB @Thickness 6.40 mm, Temperature 23.0 Â°C	NB @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	ASTM D3418

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 250 Â°C	455 - 482 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	250 - 265 Â°C	482 - 509 Â°F	Injection Molding
Melt Temperature	250 - 265 Â°C	482 - 509 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 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

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