

LG Chemical LUMID HI5006A(W) PA6/ABS, High Impact, Good Dimensional Stability

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Feature: Injection Molding, PA6/ABS, High Impact, Good Dimensional Stability
Application: Pipe Fitting, Electrical and Electronic parts
CAS No. 25038-54-4, 9003-56-9 and 9003-54-7
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5006AW-PA6ABS-High-Impact-Good-Dimensional-Stability.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm @Thickness 3.20 mm	0.0080 - 0.012 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	44.1 MPa @Thickness 3.20 mm	6400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	100 % @Thickness 3.20 mm	100 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	58.8 MPa @Thickness 3.20 mm	8530 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	1.57 GPa @Thickness 3.20 mm	228 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	6.86 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	12.9 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C @Thickness 6.40 mm	230 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
	80.0 Â°C	176 Â°F	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.9	2.9	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	26.0 kV/mm	660 kV/in	ASTM D419
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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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