

LG Chemical LUMID HI1102B(W) PA66, High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Feature: Injection Molding, PA66, High Impact Application: Automotive (Covers) CAS No. 32131-17-2 and 9010-79-1 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI1102BW-PA66-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	1.3 %	1.3 %	ASTM D570
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm @Thickness 3.20 mm	0.012 - 0.016 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	63.7 MPa @Thickness 3.20 mm	9250 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	40 % @Thickness 3.20 mm	40 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	79.4 MPa @Thickness 3.20 mm	11500 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	1.96 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	3.67 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ASTM D696
Melting Point	260 Â°C	500 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	225 Â°C @Thickness 6.40 mm	437 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Middle Barrel Temperature	265 - 275 Â°C	509 - 527 Â°F	Injection Molding
Front Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	Injection Molding
Nozzle Temperature	270 - 280 Â°C	518 - 536 Â°F	Injection Molding
Melt Temperature	270 - 280 Â°C	518 - 536 Â°F	Injection Molding
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 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 - 60 rpm	30 - 60 rpm	Injection Molding

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