

LG Chemical LUMID HI1202A(W) PA6, High Impact

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

Material Notes:

Feature: Injection Molding, PA6, High Impact
Application: Electric/Electronic Parts
CAS No. 25038-54-4 and 9010-79-1
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI1202AW-PA6-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D570
Linear Mold Shrinkage, Flow	0.014 - 0.018 cm/cm @Thickness 3.20 mm	0.014 - 0.018 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	51.0 MPa @Thickness 3.20 mm	7400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	60 % @Thickness 3.20 mm	60 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	68.6 MPa @Thickness 3.20 mm	9960 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	1.77 GPa @Thickness 3.20 mm	256 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	8.34 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	15.6 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	130 Â°C @Thickness 6.40 mm	266 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.8	2.8	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	195 sec	195 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	Injection Molding
Middle Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Front Barrel Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Nozzle Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Melt Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 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

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