

LG Chemical LUMID HI2152A(W) PA6+GF15%, High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Impact Grade

Material Notes:

Feature: Injection Molding, PA6+GF15%, High Impact Application: Automotive Parts CAS No. 25038-54-4, 9010-79-1 and 65997-17-

3 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI2152AW-PA6GF15-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.010 cm/cm @Thickness 3.20 mm	0.0050 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	96.1 MPa @Thickness 3.20 mm	13900 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	4.5 % @Thickness 3.20 mm	4.5 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	137 MPa @Thickness 3.20 mm	19900 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	4.31 GPa @Thickness 3.20 mm	626 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 6.40 mm, Temperature -30.0 Â°C	1.10 ft-lb/in @Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	1.77 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	3.31 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 Âµm/m-Â°C	20.0 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	Unannealed, ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	180 sec	180 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Middle Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	Injection Molding
Front Barrel Temperature	260 - 285 Â°C	500 - 545 Â°F	Injection Molding
Nozzle Temperature	260 - 290 Â°C	500 - 554 Â°F	Injection Molding
Melt Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 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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