

LG Chemical LUMID HI3232A(W) PA6+MF23%, High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled , Nylon 6, Impact Grade

Material Notes:

Feature: Injection Molding, PA6+MF23%, High Impact Application: Automotive Parts CAS No. 25038-54-4, 9010-79-1 and 14807-96-

6 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI3232AW-PA6MF23-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Water Absorption	1.0 %	1.0 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0090 - 0.013 cm/cm @Thickness 3.20 mm	0.0090 - 0.013 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	68.6 MPa @Thickness 3.20 mm	9960 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	12 % @Thickness 3.20 mm	12 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	98.1 MPa @Thickness 3.20 mm	14200 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	3.92 GPa @Thickness 3.20 mm	569 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	190 $\text{Å}^\circ\text{C}$ @Thickness 6.40 mm	374 $\text{Å}^\circ\text{F}$ @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 $\text{Å}^\circ\text{C}$ @Thickness 6.40 mm	230 $\text{Å}^\circ\text{F}$ @Thickness 0.252 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.0	4.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	185 sec	185 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Middle Barrel Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding
Front Barrel Temperature	245 - 275 Â°C	473 - 527 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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