

LG Chemical LUMID HM2604AW PA6+GF60%

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA6+GF60%Application: Bath liftInformation provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HM2604AW-PA6GF60.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	130	130	ASTM D785
Tensile Strength, Yield	206 MPa	29900 psi	5mm/min; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Elongation at Break	2.0 %	2.0 %	5mm/min; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Yield Strength	304 MPa	44100 psi	1.3mm/min; ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	15.7 GPa	2280 ksi	1.3mm/min; ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	1.57 J/cm	2.94 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 Âµm/m-Â°C	20.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	21.0 kV/mm @Thickness 1.00 mm	533 kV/in @Thickness 0.0394 in	ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495

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