

LG Chemical LUMID LW4203A(W) PA6+GF/MF20%, Low Warpage

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Feature: Injection Molding, PA6+GF/MF20%, Low Warpage Application: Automotive Parts (Engine Cover) CAS No. 25038-54-4, 13983-17-0 and 65997-17-3 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-LW4203AW-PA6GFMF20-Low-Warpage.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0070 - 0.012 cm/cm @Thickness 3.20 mm	0.0070 - 0.012 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	103 MPa @Thickness 3.20 mm	14900 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	9.0 % @Thickness 3.20 mm	9.0 % @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	3.92 GPa @Thickness 3.20 mm	569 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.918 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 Âµm/m-Â°C	25.6 Âµin/in-Â°F	ASTM D696
Melting Point	220 Â°C	428 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	180 Â°C @Thickness 6.40 mm	356 Â°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	3.0 @Frequency 1.00e+6 Hz	3.0 @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	130 sec	130 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 250 Â°C	455 - 482 Â°F	Injection Molding
Middle Barrel Temperature	240 - 265 Â°C	464 - 509 Â°F	Injection Molding
Front Barrel Temperature	240 - 265 Â°C	464 - 509 Â°F	Injection Molding
Nozzle Temperature	250 - 275 Â°C	482 - 527 Â°F	Injection Molding
Melt Temperature	250 - 275 Â°C	482 - 527 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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