

LG Chemical LUPOS GP2100 ABS+GF10%, General Purpose

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, ABS+GF10%, General Purpose
 Application: Electric & Electronic (Housing, Components)
 CAS No. 9003-56-9, 9003-54-7 and 65997-17-3
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOS-GP2100-ABSGF10-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	4.2 g/10 min @Load 3.80 kg, Temperature 230 Â°C	4.2 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	64.7 MPa @Thickness 3.20 mm	9390 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	3.73 GPa @Thickness 3.20 mm	540 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.84 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C @Thickness 6.40 mm	207 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric ^{°C}	English ^{°F}	Comments
UL RTI, Electrical	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	
Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 235 Â°C	428 - 455 Â°F	Injection Molding
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Front Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Nozzle Temperature	230 - 245 Â°C	446 - 473 Â°F	Injection Molding
Melt Temperature	235 - 245 Â°C	455 - 473 Â°F	Injection Molding
Mold Temperature	50.0 - 80.0 Â°C	122 - 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
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 60 rpm	40 - 60 rpm	Injection Molding

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