

LG Chemical Lupox® GP2056F PBT+GF5%

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

Description: Injection Molding, PBT+GF5%, Flame Retardant Application: IT/OA, E&E (Connector) CAS No. 71342-77-3, 65997-17-3, 24968-12-5 and 1309-64-4 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-GP2056F-PBTGF5.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.012 cm/cm @Thickness 3.20 mm	0.0050 - 0.012 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.8 MPa @Thickness 3.20 mm	8530 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	4.0 % @Thickness 3.20 mm	4.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	98.1 MPa @Thickness 3.20 mm	14200 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	3.73 GPa @Thickness 3.20 mm	540 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.294 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.551 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	225 Â°C	437 Â°F	@ Break; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	190 Â°C @Thickness 6.40 mm	374 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C @Thickness 6.40 mm	266 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties UL RTI, Electrical	130 Â°C Metric	266 Â°F English	Comments
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	130 Â°C	266 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	130 Â°C	266 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	130 Â°C	266 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	140 Â°C	284 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	140 Â°C	284 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
	23.0 kV/mm	584 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 1.00 mm	English @ Thickness 0.0394 in	ASTM D149 Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	Solution A; IEC 60112
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	60 - 120 arcs	60 - 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 250 Â°C	455 - 482 Â°F	Injection Molding
Middle Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	Injection Molding
Front Barrel Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Nozzle Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Melt Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Mold Temperature	60.0 - 100 Â°C	140 - 212 Â°F	Injection Molding
Drying Temperature	130 Â°C	266 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

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