LG Chemical LupoxÂ® GP2306FS PBT+GF30%

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Description: Injection Molding, PBT+GF30%, Flame Retardant, Anti-Hydrolysis Application: IT/OA, E&E (Connector)CAS No. 68928-70-1, 65997-17-3, 24968-12-5 and 1309-64-4Information provided by LG Chemical

Order this product through the following link:
http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-GP2306FS-PBTGF30.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0030 - 0.010 cm/cm @Thickness 3.20 mm	0.0030 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	127 MPa @Thickness 3.20 mm	18400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	186 MPa @Thickness 3.20 mm	27000 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	8.34 GPa @Thickness 3.20 mm	1210 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.735 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.38 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)	215 Â°C @Thickness 6.40 mm	419 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C @Thickness 6.40 mm	410 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	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	
UL RTI, Mechanical with 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	
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+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
	28.0 kV/mm	711 kV/in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	@Thickness 1.00 mm	@Thickness 0.0394 in	ASTM D149
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	
Hot Wire Ignition, HWI	7.0 - 15 sec @Thickness >=0.710 mm	7.0 - 15 sec @Thickness >=0.0280 in	
	30 - 60 sec @Thickness >=1.50 mm	30 - 60 sec @Thickness >=0.0591 in	
High Amp Arc Ignition, HAI	60 - 120 arcs @Thickness 0.710 mm	60 - 120 arcs @Thickness 0.0280 in	
	60 - 120 arcs @Thickness 1.50 mm	60 - 120 arcs @Thickness 0.0591 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	120 Â°C	248 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

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