

LG Chemical LUMAX GP5306F PBT+ABS+GF30%, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

Description: Injection Molding Grade, PBT+ABS+GF30%, Flame Retardant Application: E&E (Connector) CAS: 9003-56-9, 68928-70-1, 65997-17-3, 24968-12-5, 9003-54-7 and 1309-64-4 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMAX-GP5306F-PBTABSGF30-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0090 cm/cm @Thickness 3.20 mm	0.0040 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	5mm/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	162 MPa @Thickness 3.20 mm	23500 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	7.85 GPa @Thickness 3.20 mm	1140 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	Peak at Break
Deflection Temperature at 0.46 MPa (66 psi)	200 Â°C @Thickness 6.40 mm	392 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
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

Thermal Properties	Metric °C	English 140 °F	Comments
UL RTI, Electrical	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 °C	140 °F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 °C	140 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 °C	140 °F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 °C	140 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 °C	140 °F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	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+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	26.0 kV/mm	660 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
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	30 - 60 sec	30 - 60 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60 - 120 sec	60 - 120 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric ⁰ arcs	English ¹ arcs	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 235 Â°C	437 - 455 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 - 90.0 Â°C	140 - 194 Â°F	Injection Molding
Drying Temperature	100 Â°C	212 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China