

LG Chemical LUMAX GN5006FC PBT+ABS, Heat Resistance

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Heat Resistant

Material Notes:

Description: Injection Molding, PBT+ABS, Halogen Free Flame Retardant Application: E&E (Connector) CAS: 9003-56-9, 9003-54-7 and 24968-12-5 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMAX-GN5006FC-PBTABS-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.1 MPa @Thickness 3.20 mm	6830 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	13 % @Thickness 3.20 mm	13 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	70.6 MPa @Thickness 3.20 mm	10200 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.76 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 1.8 MPa (264 psi)	80.0 Â°C @Thickness 6.40 mm	176 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Â°C @Thickness >=1.20 mm	140 Â°F @Thickness >=0.0472 in	

Thermal Properties	Metric °C	English 140 Â°F	Comments
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-2	V-2	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	V-2	V-2	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-2	V-2	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 230 Â°C	428 - 446 Â°F	Injection Molding
Middle Barrel Temperature	225 - 235 Â°C	437 - 455 Â°F	Injection Molding
Front Barrel Temperature	225 - 235 Â°C	437 - 455 Â°F	Injection Molding
Nozzle Temperature	230 - 245 Â°C	446 - 473 Â°F	Injection Molding

Processing Properties	Metric145 Â°C	English73 Â°F	Commentsolding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°F	Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	Injection Molding

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