

LG Chemical Lupox[®] NH2306F PBT+GF30%

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

Material Notes:

Description: Injection Molding, PBT+GF30%, Halogen Free Flame Retardant Application: IT/OA, E&E (Connector) CAS No. 65997-17-3 and 24968-12-5 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-NH2306F-PBTGF30.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 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	98.1 MPa @Thickness 3.20 mm	14200 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	150 MPa @Thickness 3.20 mm	21800 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	0.588 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.10 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	225 Å°C	437 Å°F	@ Break; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C @Thickness 6.40 mm	419 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C @Thickness 6.40 mm	410 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties UL RTI, Electrical	75.0 Å°C Metric	167 Å°F English	Comments
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	75.0 Å°C	167 Å°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	75.0 Å°C	167 Å°F	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	
UL RTI, Mechanical with Impact	75.0 Å°C	167 Å°F	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	75.0 Å°C	167 Å°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	75.0 Å°C	167 Å°F	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	
UL RTI, Mechanical without Impact	75.0 Å°C	167 Å°F	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	75.0 Å°C	167 Å°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	75.0 Å°C	167 Å°F	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	V-0	V-0	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	V-0	V-0	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 0.800 mm	>= 120 arcs @Thickness 0.0315 in	

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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