

LG Chemical Lupox[®] GP2300R PBT+GF30%

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

Material Notes:

Description: Injection Molding, PBT+GF30%, Anti-Hydrolysis Application: E&E (Speed Nut & Body) 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-GP2300R-PBTGF30.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.010 cm/cm @Thickness 3.20 mm	0.0040 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	123 MPa @Thickness 3.20 mm	17800 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	181 MPa @Thickness 3.20 mm	26300 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	0.785 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.47 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	140 Â°C Metric	284 Â°F English	Comments
UL RTI, Electrical	@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	120 Â°C	248 Â°F	
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Â°C	248 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	HB	HB	
	@Thickness >=0.710 mm	@Thickness >=0.0280 in	
	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@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	120 - 180 sec	120 - 180 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112
Hot Wire Ignition, HWI	30 - 60 sec @Thickness >=1.50 mm	30 - 60 sec @Thickness >=0.0591 in	
	60 - 120 sec @Thickness >=3.00 mm	60 - 120 sec @Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	
	>= 120 arcs @Thickness 3.00 mm	>= 120 arcs @Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 250 Å°C	455 - 482 Å°F	Injection Molding
Middle Barrel Temperature	240 - 250 Å°C	464 - 482 Å°F	Injection Molding
Front Barrel Temperature	245 - 255 Å°C	473 - 491 Å°F	Injection Molding
Nozzle Temperature	245 - 255 Å°C	473 - 491 Å°F	Injection Molding
Melt Temperature	245 - 255 Å°C	473 - 491 Å°F	Injection Molding
Mold Temperature	60.0 - 100 Å°C	140 - 212 Å°F	Injection Molding
Drying Temperature	120 Å°C	248 Å°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

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