

LG Chemical Lupox[®] LW5102F PBT+PC+GF10%

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Glass Filled , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Description: Injection Molding, PBT+PC+GF10%, Low Warpage, Flame Retardant Application: IT/OA, E&E (Switch) CAS No. 9003-01-04, 68928-70-1, 65997-17-3, 24968-12-5, 103598-77-2 and 1309-64-4 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-LW5102F-PBTPCGF10.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	40 % @Thickness 3.20 mm	40 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	90.2 MPa @Thickness 3.20 mm	13100 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	3.24 GPa @Thickness 3.20 mm	469 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.441 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.827 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)	190 Â°C @Thickness 6.40 mm	374 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C @Thickness 6.40 mm	284 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	@Thickness 1.00 - 1.10 mm	@Thickness 0.0394 - 0.0433 in	
	75.0 Â°C	167 Â°F	
UL RTI, Mechanical with Impact	@Thickness 1.00 - 1.10 mm	@Thickness 0.0394 - 0.0433 in	
	75.0 Â°C	167 Â°F	
UL RTI, Mechanical without Impact	@Thickness 1.00 - 1.10 mm	@Thickness 0.0394 - 0.0433 in	
	75.0 Â°C	167 Â°F	
Flammability, UL94	V-0	V-0	
	@Thickness 1.00 - 1.10 mm	@Thickness 0.0394 - 0.0433 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 - 6.00 hour	4.00 - 6.00 hour	Injection Molding

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