

LG Chemical Lupox[®] SG5200 PBT+PET+GF20%

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

Description: Injection Molding, PBT+PET+GF20%, Good Surface Application: E&E (Microwave Oven Door Gasket)CAS No. 65997-17-3, 25038-59-9 and 24968-12-5Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-SG5200-PBTPETGF20.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 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	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	152 MPa @Thickness 3.20 mm	22000 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	5.69 GPa @Thickness 3.20 mm	825 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.539 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.01 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	@ Break; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	210 °C @Thickness 6.40 mm	410 °F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 °C @Thickness 6.40 mm	392 °F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric °C	English	Comments
UL RTI, Electrical	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	75.0 Â°C	167 Â°F	
UL RTI, Mechanical with Impact	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	75.0 Â°C	167 Â°F	
UL RTI, Mechanical without Impact	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	75.0 Â°C	167 Â°F	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Middle Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	Injection Molding
Front Barrel Temperature	255 - 265 Â°C	491 - 509 Â°F	Injection Molding
Nozzle Temperature	255 - 265 Â°C	491 - 509 Â°F	Injection Molding
Melt Temperature	255 - 265 Â°C	491 - 509 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 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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