

## LG Chemical Lupox<sup>®</sup> SG5500 PBT+PET+GF50%

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

### Material Notes:

Description: Injection Molding, PBT+PET+GF50%, Good Surface, High Stiffness Application: E&E, Automotive (Switch) CAS No. 65997-17-3, 24968-12-5 and 25038-59-9 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-Lupox-SG5500-PBTPETGF50.php](http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-SG5500-PBTPETGF50.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.72 g/cc	1.72 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0030 - 0.0090 cm/cm @Thickness 3.20 mm	0.0030 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	157 MPa @Thickness 3.20 mm	22800 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	2.0 % @Thickness 3.20 mm	2.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	235 MPa @Thickness 3.20 mm	34100 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	13.7 GPa @Thickness 3.20 mm	1990 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.65 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 1.8 MPa (264 psi)	205 Å°C @Thickness 6.40 mm	401 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
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<b>Rear Barrel Temperature Processing Properties</b>	<b>245 - 255 Â°C Metric</b>	<b>473 - 491 Â°F English</b>	<b>Injection Molding Comments</b>
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

## Contact Songhan Plastic Technology Co.,Ltd.

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