

LG Chemical Lupox[®] SG3180S PBT+PET+MF18%

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

Material Notes:

Description: Injection Molding, PBT+PET+MF18%, Good Surface Application: Automotive (Head Lamp Bezel) CAS No. 30965-26-5, 25038-59-9 and 14807-96-6 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-SG3180S-PBTPETMF18.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	0.0070 - 0.015 cm/cm @Thickness 3.20 mm	0.0070 - 0.015 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa @Thickness 3.20 mm	7690 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	90.2 MPa @Thickness 3.20 mm	13100 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	3.63 GPa @Thickness 3.20 mm	526 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.304 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	0.569 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)	190 Å°C @Thickness 6.40 mm	374 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	235 - 250 Å°C Metric	455 - 482 Å°F English	Injection Molding Comments
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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