

LG Chemical Lupox[®] GP2300G PBT+GF30%

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

Material Notes:

Description: Injection Molding, PBT+GF30%, HCFC Resistance
Application: E&E (Muffler of Refrigerator)
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-GP2300G-PBTGF30.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|---|-------------------|
| Specific Gravity | 1.52 g/cc | 1.52 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 | 118 MPa @Thickness 3.20 mm | 17100 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 | 177 MPa @Thickness 3.20 mm | 25600 psi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Flexural Modulus | 7.65 GPa @Thickness 3.20 mm | 1110 ksi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Izod Impact, Notched | 0.735 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C | 1.38 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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