

LG Chemical Lupox® GP-2301F General Purpose PBT, 30% Glass Fiber Reinforced, Flame Retardant

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

Material Notes:

LUPOX semi-crystalline thermoplastic PBT resins exhibit properties including high strength, rigidity and good resistance to fatigue and creep at elevated temperatures. Furthermore, LUPOX resins show minimal moisture absorption, excellent electrical properties, plus good chemical resistance against water, weak acid and many solvents. Applications: Automotive: Back beam, door frame garnish, distributor cap, rotor arm, head lamp actuator, bezel, door handle, ignition components, connectors, speed control device, window drive system Electrical and Electronic: Relay, lamp socket, solenoid and transformer bobbin, timer case, focus pack, refrigerator muffler, key top, condenser, switch, connector, electronic range door latch, zircon frame and blade, PC inlet socket Industrial Parts and Household Appliances: Pump case, oven handle, toaster and cooker housing, gear, insulator support and bracket, telecommunications cable splice closure, water meter housing, loose tube Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-GP-2301F-General-Purpose-PBT-30-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	125 MPa	18100 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	185 MPa	26800 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm @Temperature 23.0 Â°C	1.41 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 0.710 mm Metric	@Thickness 0.0280 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 245 Â°C	446 - 473 Â°F	
Middle Barrel Temperature	235 - 250 Â°C	455 - 482 Â°F	
Front Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	
Nozzle Temperature	240 - 260 Â°C	464 - 500 Â°F	
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	
Mold Temperature	50.0 - 100 Â°C	122 - 212 Â°F	
Drying Temperature	120 Â°C	248 Â°F	dehumidifying dryer
	@Time 14400 sec	@Time 4.00 hour	
	140 Â°C	284 Â°F	dehumidifying dryer
	@Time 7200 sec	@Time 2.00 hour	
Injection Pressure	39.23 - 83.36 MPa	5690 - 12090 psi	Second
	68.7 - 118 MPa	9960 - 17100 psi	First
Back Pressure	0.000 - 3.92 MPa	0.000 - 569 psi	
Screw Speed	40 - 75 rpm	40 - 75 rpm	

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