

## LG Chemical Lupox<sup>®</sup> GP-1001F General Purpose PBT, Unreinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

### 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-1001F-General-Purpose-PBT-Unreinforced-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-GP-1001F-General-Purpose-PBT-Unreinforced-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	108 MPa	15700 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Izod Impact, Notched	0.300 J/cm @Temperature 23.0 Â°C	0.562 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	165 Â°C	329 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Â°C	149 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.710 mm	V-0 @Thickness 0.0280 in	

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 235 Â°C	437 - 455 Â°F	
Middle Barrel Temperature	230 - 240 Â°C	446 - 464 Â°F	
Front Barrel Temperature	235 - 245 Â°C	455 - 473 Â°F	
Nozzle Temperature	235 - 245 Â°C	455 - 473 Â°F	
Melt Temperature	235 - 245 Â°C	455 - 473 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 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	34.32 - 49.03 MPa	4978 - 7111 psi	Second
	39.23 - 68.65 MPa	5690 - 9957 psi	First
Back Pressure	0.000 - 3.92 MPa	0.000 - 569 psi	
Screw Speed	70 - 100 rpm	70 - 100 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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