

LG Chemical Lupox[®] TE-5020 High Impact PBT, Thermoplastic Elastomer Alloy, Blow Molding

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

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-TE-5020-High-Impact-PBT-Thermoplastic-Elastomer-Alloy-Blow-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 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	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	1.95 GPa	283 ksi	ASTM D790
Izod Impact, Notched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C	230 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	
Middle Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	
Front Barrel Temperature	245 - 265 Â°C	473 - 509 Â°F	
Nozzle Temperature	260 - 280 Â°C	500 - 536 Â°F	
Melt Temperature	260 - 280 Â°C	500 - 536 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	44.13 - 63.74 MPa	6401 - 9245 psi	Second
	49.03 - 78.45 MPa	7111 - 11380 psi	First
Back Pressure	0.000 - 3.92 MPa	0.000 - 569 psi	
Screw Speed	70 - 100 rpm	70 - 100 rpm	

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