

LG Chemical LUMAX GP-5106F General Purpose PBT, 10% Polymer Alloy, Weather Resistant, Flame Retardant

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

Material Notes:

LUMAX resins are a family of thermoplastic blends of polybutyleneterephthalate(PBT) and styrenic resins that combine the most desirable properties of both resins and fillers. They offer high heat resistance, impact resistance, and processability requirements of a wide range of applications. Applications: Automotive: Back beam, roof molding, instrument panel, cowl vent grill, speaker frame, lamp parts, glove box housing Electrical and Electronic: Household appliances housings and internal parts, key top, switch, compressor terminal board, cd changer, deck items, floppy disc carriage, electric tool housing Industrial Parts and Household Appliance: Lawn mower housing, motor housing, pump impeller Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMAX-GP-5106F-General-Purpose-PBT-10-Polymer-Alloy-Weather-Resistant-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 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	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	3.23 GPa	468 ksi	ASTM D790
Izod Impact, Notched	0.650 J/cm @Temperature 23.0 Â°C	1.22 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 Â°C	356 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 235 Â°C	437 - 455 Â°F	
Middle Barrel Temperature	230 - 245 Â°C	446 - 473 Â°F	
Front Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	
Nozzle Temperature	240 - 250 Â°C	464 - 482 Â°F	
Melt Temperature	240 - 250 Â°C	464 - 482 Â°F	
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	
Drying Temperature	100 - 120 Â°C	212 - 248 Â°F	
Dry Time	3 - 4 hour	3 - 4 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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