

LG Chemical Lupox® PBT-LW5303 30% Glass Filled Low Warp PBT

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

Material Notes:

Low Warpage. Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-PBT-LW5303-30-Glass-Filled-Low-Warp-PBT.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hours at 73°F; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0090 cm/cm	0.0030 - 0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	91	91	ASTM D785
Tensile Strength, Yield	117 MPa	17000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	177 MPa	25600 psi	ASTM D570
Flexural Modulus	7.350 GPa	1066 ksi	ASTM D570
Izod Impact, Notched	0.881 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ASTM D648
Flammability, UL94	HB @Thickness 0.7937 mm	HB @Thickness 0.03125 in	UL94

Electrical Properties	Metric	English	Comments
Arc Resistance	80 sec	80 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 245 °C	446 - 473 °F	

Middle Barrel Temperature Processing Properties	235 - 250 Â°C Metric	455 - 482 Â°F English	Comments
Front Barrel Temperature	240 - 250 Â°C	464 - 482 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	Surface
Drying Temperature	120 Â°C	248 Â°F	5 hr.
	140 Â°C	284 Â°F	3 hr.
	120 Â°C	248 Â°F	
	@Time 18000 sec	@Time 5.00 hour	
	140 Â°C	284 Â°F	
	@Time 10800 sec	@Time 3.00 hour	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	
Shot Size	40 - 80 %	40 - 80 %	
Vent Depth	0.00254 - 0.00381 cm	0.00100 - 0.00150 in	

Descriptive Properties	Value	Comments
Ram Speed Setting	Medium to Fast	
Screw Speed	Medium	

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