

BASF Ultradur® FFree B 4450 G5 LS 25% Glass Filled PBT

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

Material Notes:

Description: Is a PBT, injection-molding grade with 25% glass fibers for parts requiring enhanced fire resistance as well as increased tracking resistance (e.g. housings for electronics, plug-and-socket connectors, power switches), halogen- and antimony free. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-Free-B-4450-G5-LS-25-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Saturation; DIN 53495/1L
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	60x60x2 mm; ISO 294
Linear Mold Shrinkage, Transverse	0.0147 cm/cm	0.0147 in/in	60x60x2 mm; ISO 294
Melt Flow	32.2 g/10 min @Load 2.16 kg, Temperature 275 °C	32.2 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	105 MPa	15200 psi	50 mm/min; ISO 527-2
Elongation at Break	2.4 %	2.4 %	50mm/min; ISO 527-2
Modulus of Elasticity	9.50 GPa	1380 ksi	ISO 527-2
Flexural Strength	180 MPa	26100 psi	ISO 178
Charpy Impact Unnotched	4.20 J/cm ²	20.0 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 - 120 µm/m-°C @Temperature 23.0 - 80.0 °C	16.7 - 66.7 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	220 - 225 °C	428 - 437 °F	DSC; ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Thermal Stability at 1.8 MPa (264 psi)	261 °C	500 °F	ISO 18-2
Flammability, UL94	V-2	V-2	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	IEC 93
Dielectric Constant	3.6	3.6	IEC 250
Dissipation Factor	0.0142	0.0142	IEC 250
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	Injection-molding
Mold Temperature	60.0 - 100 °C	140 - 212 °F	

Descriptive Properties	Value	Comments
Color	Natural, Colored, Black and Special Colors	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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