

BASF Ultradur B 4406 G4 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Description: Is a PBT, flame-retardant injection-molding grades, with 20% glass fibers, for parts requiring enhanced fire resistance, e.g. plug-and-socket connectors, housings, coil formers and lighting components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4406-G4-PBT.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	DIN 53495/1L
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.
Viscosity Test	116 cm ³ /g	116 cm ³ /g	Viscosity number
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Sheet
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	Sheet
Melt Flow	17.0 g/10 min @Load 2.16 kg, Temperature 250 °C	17.0 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa	27600 psi	ISO 2039-1
Tensile Strength, Yield	125 MPa	18100 psi	50mm/min; ISO 527-2
Elongation at Break	2.6 %	2.6 %	50mm/min; ISO 527
Modulus of Elasticity	8.20 GPa	1190 ksi	ISO 527-2
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
Dart Drop, Total Energy	<= 5.00 J	<= 3.69 ft-lb	ISO 6603-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	2.80 - 3.40 µm/m-°C @Temperature 23.0 - 80.0 °C	1.56 - 1.89 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	IEC 1006

Thermal Properties	Metric	English	Comments
	125 °C	257 °F	ISO 11357-3
Maximum Service Temperature, Air	120 °C	248 °F	at 50% loss of tensile strength after 20000h; IEC 216-1
	130 °C	266 °F	at 50% loss of tensile strength after 5000h; IEC 216-1
	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-2
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 243/1
Dissipation Factor	0.0070	0.0070	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	150 V	150 V	Test solution B; IEC 60112
	200 V	200 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	for shrinkage test

Processing Properties	250 - 275 °C Metric	482 - 527 °F English	Injection molding Comments
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
	80.0 °C	176 °F	for shrinkage test

Descriptive Properties	Value	Comments
Color	Natural, Colored, Black and Special Colors	
Form	Pellets	
Processing	Injection Molding	
Special characteristic	Flame retarding agent	
	Heat stabilized or stable to heat	
	Light stabilized or stable to light	
	Lubricant	
	U.V. stabilized or stable to weather	

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