

BASF Ultradur® B 4300 G3 High Speed 15% Glass Filled BK 15045 PBT

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

Material Notes:

Description: Easy flowing injection molding grade with 15 % glass fibers; for rigid, tough and dimensionally stable technical parts (eg timer dials, toggles, knobs, parts for thermostats, oven-door handles, toaster housings and grills)Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G3-High-Speed-15-Glass-Filled-BK-15045-PBT.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 - 0.900 g/cc	0.0217 - 0.0325 lb/in ³	
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62
Viscosity Measurement	100	100	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 2577
Melt Flow	35.25 g/10 min @Load 2.16 kg, Temperature 250 °C	35.25 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	5.50 GPa	798 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.00 J/cm ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	ISO 11357-1/-2
Maximum Service Temperature, Air	210 °C	410 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	220 °C	428 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Decomposition Temperature	>= 290 °C	>= 554 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0012	0.0012	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	300 V	300 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	203 - 275 °C	397 - 527 °F	Injection molding/Extrusion
Mold Temperature	60.0 - 100 °C	140 - 212 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK 15045	
Commercial Status	Europe	
Ignition Temperature	350°C	ASTM D1929

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