

BASF Ultradur® B 4300 G6 LT 30% Glass Filled BK 150926 PBT

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

Material Notes:

Description: Easy flowing injection molding grade with 30 % glass fibers; for rigid, tough and dimensionally stable technical parts (eg windshield wiper arms, printed circuit boards PCBs), housing, consoles, contact carriers, covers)Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G6-LT-30-Glass-Filled-BK-150926-PBT.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 - 0.900 g/cc	0.0217 - 0.0325 lb/in ³	
Density	1.53 g/cc	0.0553 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	102	102	[cm ³ /g]; ISO 307
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	plate with film gate 150x150x3mm ³
	0.0034 cm/cm	0.0034 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0107 cm/cm	0.0107 in/in	ISO 2577
	0.011 cm/cm	0.011 in/in	plate with film gate 150x150x3mm ³
Melt Flow	16.83 g/10 min @Load 2.16 kg, Temperature 250 °C	16.83 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa @Load 98.0 kg, Time 30.0 sec	27600 psi @Load 216 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	9.80 GPa	1420 ksi	ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	ISO 178
Charpy Impact Unnotched	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric J/cm^2	English lb/in^2	Comments
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	7500 MPa @Strain <=0.500 %	1.09e+6 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 80.0 °C	11.1 - 16.7 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 176 °F	ISO 11359-1/-2
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² -°F	DIN 52612-1
Melting Point	223 °C	433 °F	ISO 11357-1/-2
Maximum Service Temperature, Air	140 °C	284 °F	at 50% loss of tensile strength after 20,000hr
	160 °C	320 °F	at 50% loss of tensile strength after 5,000hr
	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75-1/-2
Decomposition Temperature	>= 290 °C	>= 554 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Diameter 4.00 mm	HB @Diameter 0.157 in	
	HB @Diameter 0.400 mm	HB @Diameter 0.0157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	4.0	4.0	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Dissipation Factor	0.0025	0.0025	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	125 V	125 V	Test Solution B; IEC 60112
	375 V	375 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 275 °C	482 - 527 °F	Injection molding/Extrusion
Mold Temperature	60.0 - 100 °C	140 - 212 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK 15092	
Commercial Status	Europe	
Ignition Temperature	350°C	ASTM D1929

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