

BASF Ultradur B 4300 G2 10% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

Ultradur B4300 G2 is an easy flowing injection molding PBT with 10% glass fiber reinforcement for rigid, tough, and dimensionally stable parts. Applications: Program switches, thermostat parts, small-motor housings for vehicles, headlamp frames, cams, automotive windscreen wiper arms, PCBs, housings, consoles, contact mounts and covers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G2-10-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 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	115 cm ³ /g	115 cm ³ /g	Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	Sheet
	0.0122 cm/cm	0.0122 in/in	60x60x2mm; ISO 294
Linear Mold Shrinkage, Transverse	0.0134 cm/cm	0.0134 in/in	Sheet
	0.0138 cm/cm	0.0138 in/in	60; ISO 294
Melt Flow	21.9 g/10 min	21.9 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	5mm/min; ISO 527-2
Tensile Strength	50.0 MPa	7250 psi	ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	70.0 MPa	10200 psi	ISO 527
	@Temperature 50.0 °C	@Temperature 122 °F	
	90.0 MPa	13100 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	130 MPa	18900 psi	ISO 527

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
Tensile Stress	10.0 MPa	1450 psi	ISO 527
	@Strain 1.00 %, Temperature 140 °C	@Strain 1.00 %, Temperature 284 °F	
	25.0 MPa	3630 psi	ISO 527
	@Strain 6.00 %, Temperature 140 °C	@Strain 6.00 %, Temperature 284 °F	
	30.0 MPa	4350 psi	ISO 527
	@Strain 10.0 %, Temperature 140 °C	@Strain 10.0 %, Temperature 284 °F	
	30.0 MPa	4350 psi	ISO 527
	@Strain 1.00 %, Temperature 40.0 °C	@Strain 1.00 %, Temperature 104 °F	
	60.0 MPa	8700 psi	ISO 527
	@Strain 1.00 %, Temperature -40.0 °C	@Strain 1.00 %, Temperature -40.0 °F	
	65.0 MPa	9430 psi	ISO 527
	@Strain 4.00 %, Temperature 40.0 °C	@Strain 4.00 %, Temperature 104 °F	
	68.0 MPa	9860 psi	ISO 527
	@Strain 7.00 %, Temperature 40.0 °C	@Strain 7.00 %, Temperature 104 °F	
	125 MPa	18100 psi	ISO 527
	@Strain 4.00 %, Temperature -40.0 °C	@Strain 4.00 %, Temperature -40.0 °F	
Tensile Strength, Yield	90.0 MPa	13100 psi	50mm/min; ISO 527-2
Elongation at Break	3.5 %	3.5 %	5mm/min; ISO 527
Modulus of Elasticity	4.50 GPa	653 ksi	ISO 527-2
Flexural Strength	140 MPa	20300 psi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	ISO 6603-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.00 - 5.00 µm/m-°C	2.22 - 2.78 µin/in-°F	

Thermal Properties	@Temperature 23.0 - 30.0 °C Metric	@Temperature 73.4 - 77.0 °F English	Comments
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	IEC 1006
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	220 - 225 °C	428 - 437 °F	ISO 11357-3
Maximum Service Temperature, Air	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-2
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flame Spread	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Flame Spread	<= 100 mm/min	<= 3.94 in/min	DIN 75200
Glow Wire Test	<= 750 °C	<= 1380 °F	IEC 695
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	100 kV/mm	2540 kV/in	IEC 243/1
Dissipation Factor	0.0012	0.0012	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	125 V	125 V	IEC 112

Electrical Properties	300 V Metric	300 V English	Test solution A; IEC 60112 Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	
	250 - 275 °C	482 - 527 °F	Injection molding
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
	80.0 °C	176 °F	

Descriptive Properties	Value	Comments
Color	Natural, Colored, Black and Special Colors	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	No	
NSF Std. 61	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
	Light stabilized or stable to light	
	Lubricant	
	Release agent	
	U.V. stabilized or stable to weather	

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