

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

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Description: Is a PBT, easy-flowing injection-molding grades with 15% glass fibers; for rigid, tough and dimensionally stable technical parts. Applications: Housings, consoles, contact carriers, covers. 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-PBT.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 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
Viscosity Measurement	98	98	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0063 cm/cm	0.0063 in/in	60x60x2 mm; ISO 294
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	60x60x2 mm; ISO 294
Melt Flow	33.84 g/10 min @Load 2.16 kg, Temperature 250 °C	33.84 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	50 mm/min; ISO 527-2
Elongation at Yield	3.4 %	3.4 %	50 mm/min; ISO 527-2
Modulus of Elasticity	5.60 GPa	812 ksi	ISO 527-2
Charpy Impact Unnotched	2.70 J/cm ²	12.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.00 - 9.00 µm/m-°C @Temperature 23.0 - 80.0 °C	4.44 - 5.00 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	220 - 225 °C	428 - 437 °F	DSC; ISO 11357-3
Maximum Service Temperature, Air	210 °C	410 °F	
Deflection Temperature at 0.46 MPa	217 °C	423 °F	

(55 psi) Thermal Properties	Metric	English	ISO 75-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ISO 75-2
Flammability, UL94	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	275 V	275 V	Test solution A; IEC 112

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	250 °C	482 °F	Feeding zone
Zone 2	255 °C	491 °F	Compression
Zone 3	260 °C	500 °F	Metering-zone
Zone 4	260 °C	500 °F	Nozzle
Melt Temperature	225 - 250 °C	437 - 482 °F	Injection-molding
Mold Temperature	60.0 - 100 °C	140 - 212 °F	

Descriptive Properties	Value	Comments
Color	Natural and Black	
Commercial Status	Europe	
Peripheral screw speed	< 0.25 m/s	

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