

BASF Ultradur B 4300 G2 High Speed Unc. 10% Glass Filled PBT

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

Material Notes:

Ultradur B 4300 G2 High Speed Unc. is a high flow, fast cycling with low warpage, 10% glass filled, pigmented black, injection molding PBT for industrial parts, rigid tough and dimensional stable applications. Applications: Housings, consoles, contact carriers, and covers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G2-High-Speed-Unc-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	100 cm ³ /g	100 cm ³ /g	Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0095 cm/cm	0.0095 in/in	60x60x2mm; ISO 294
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	60x60x2mm; ISO 294
Melt Flow	37.0 g/10 min @Load 2.16 kg, Temperature 250 °C	37.0 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	50mm/min; ISO 527-2
Elongation at Break	3.5 %	3.5 %	50mm/min; ISO 527
Modulus of Elasticity	4.40 GPa	638 ksi	ISO 527-2
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Maximum Service Temperature, Air	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	ISO 75-2

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	300 V	300 V	Test solution A; IEC 60112

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

Descriptive Properties	Value	Comments
Color	Natural and Black	
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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