

BASF Ultradur® S 4090 G6 High Speed 30% Glass Filled PBT

Category : Polymer , Thermoplastic , ASA Polymer , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + ASA Blend, Glass Fiber Reinforced

Material Notes:

Description: Is a PBT + ASA, easy-flowing injection-molding grades with 30% 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-S-4090-G6-High-Speed-30-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 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	92	92	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0027 cm/cm	0.0027 in/in	60x60x2 mm; ISO 294
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	60x60x2 mm; ISO 294
Melt Flow	24.65 g/10 min @Load 2.16 kg, Temperature 275 °C	24.65 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	50 mm/min; ISO 527-2
Elongation at Yield	2.1 %	2.1 %	50 mm/min; ISO 527-2
Modulus of Elasticity	9.60 GPa	1390 ksi	ISO 527-2
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	DSC; ISO 11357-3
Maximum Service Temperature, Air	170 °C	338 °F	
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	187 °C	369 °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	325 V	325 V	Test solution A; IEC 112

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	Europe	

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