

BASF Ultradur® S 4090 G4X 20% 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, low-warpage, free-flowing injection-molding grades with very good processing capabilities, containing 20% of glass fibers for industrial parts with high dimensional stability, for example internal components for vehicles, plug connectors and housings. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-S-4090-G4X-20-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 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	104	104	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Sheet
	0.0046 cm/cm	0.0046 in/in	60x60x2 mm; ISO 294
Linear Mold Shrinkage, Transverse	0.0091 cm/cm	0.0091 in/in	60x60x2 mm; ISO 294
	0.010 cm/cm	0.010 in/in	Sheet
Melt Flow	41.7 g/10 min	41.7 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 275 °C	@Load 4.76 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	50 mm/min; ISO 527-2
Elongation at Yield	2.6 %	2.6 %	50 mm/min; ISO 527-2
Modulus of Elasticity	6.80 GPa	986 ksi	ISO 527-2
Charpy Impact Unnotched	4.90 J/cm ²	23.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.660 J/cm ²	3.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	DSC; ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75-2

Thermal Properties Deflection Temperature at 1.8 MPa (264 psi)	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	Injection-molding
	270 °C	518 °F	for shrinkage test
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
	80.0 °C	176 °F	for shrinkage test

Descriptive Properties	Value	Comments
Color	Natural and Black	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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