

BASF Ultradur® S 4090 GM11 5/5% Glass/Mineral Filled PBT

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

Material Notes:

Description: Is a PBT + ASA, injection-molding grades reinforced with 5% glass fiber/mineral, for laminar parts with high demands on dimensional stability and low warpage, e.g. lids, ventilation grilles and housing covers. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-S-4090-GM11-55-GlassMineral-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 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	139	139	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	Sheet
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	Sheet
Melt Flow	14.19 g/10 min @Load 2.16 kg, Temperature 275 °C	14.19 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ISO 527-2
Elongation at Break	3.8 %	3.8 %	50mm/min; ISO 527-2
Modulus of Elasticity	4.00 GPa	580 ksi	ISO 527-2
Flexural Strength	104 MPa	15100 psi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 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
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)	195 °C	383 °F	ISO 75-2

Deflection Temperature at 1.8 MPa (100 psi)	105 °C Metric	221 °F English	ISO 75-2 Comments
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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	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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