

BASF Ultradur® S 4090 GM13 5/15% 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 and 15% 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-GM13-515-GlassMineral-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 %	Saturation; DIN 53495/1L
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH
Viscosity Measurement	135	135	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	Sheet
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	Sheet
Melt Flow	9.59 g/10 min @Load 2.16 kg, Temperature 275 °C	9.59 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527-2
Elongation at Break	2.9 %	2.9 %	50mm/min; ISO 527-2
Modulus of Elasticity	5.90 GPa	856 ksi	ISO 527-2
Flexural Strength	115 MPa	16700 psi	ISO 178
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	5.00 µm/m-°C @Temperature 23.0 - 80.0 °C	2.78 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 Thermal Properties	170 °C Metric	338 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	ISO 75-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 93
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 93
Dielectric Constant	4.1 @Frequency 1.00e+6 Hz	4.1 @Frequency 1.00e+6 Hz	IEC 250
Dissipation Factor	0.028 @Frequency 1.00e+6 Hz	0.028 @Frequency 1.00e+6 Hz	IEC 250
Comparative Tracking Index	250 V	250 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	Black	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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