

BASF Ultradur® B 4040 G2 10% Glass Filled PBT + PET

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

Description: Is a PBT + PET, injection-molding grade containing 10% of glass fibers, for industrial parts, rigid, tough and dimensionally stable, for example for program switches, thermostat parts, small-motor housings for vehicles, headlamp frames, cams, automotive windscreen wiper arms, PCBs, housings, consoles, contact mounts and covers. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4040-G2-10-Glass-Filled-PBT-PET.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	107	107	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Sheet
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	Sheet
Melt Flow	33.36 g/10 min @Load 2.16 kg, Temperature 275 °C	33.36 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	96.0 MPa	13900 psi	50 mm/min; ISO 527-2
Elongation at Yield	2.9 %	2.9 %	50 mm/min; ISO 527-2
Modulus of Elasticity	5.00 GPa	725 ksi	ISO 527-2
Charpy Impact Unnotched	2.60 J/cm ²	12.4 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.380 J/cm ²	1.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 - 250 °C	428 - 482 °F	DSC; ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 275 °C	482 - 527 °F	Injection-molding
	270 °C	518 °F	for shrinkage test
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
	80.0 °C	176 °F	for shrinkage test

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

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