

Barlog Plastics KEBATER BF250 PBT, 50% glass fiber reinforced, food grade

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 50% Glass Fiber Filled

Material Notes:

PBT-GF50 Information provided by BARLOG plastics GmbH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Barlog-Plastics-KEBATER-BF250-PBT-50-glass-fiber-reinforced-food-grade.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	similar to ISO 62 test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	ISO 527-1
Elongation at Break	1.8 %	1.8 %	ISO 527-1
Tensile Modulus	15.0 GPa	2180 ksi	ISO 527-1
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.15 J/cm ²	5.47 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	UL Registered; IEC 60695-11-10

Thermal Properties	@Thickness 0.800 mm Metric	@Thickness 0.0315 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093

Descriptive Properties	Value	Comments
Resin Type	PBT-GF50	

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