

Radici Radiflam® B RV 300 AE Polybutylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Raditer® B RV 300AE is a glass fiber reinforced, self-extinguishing UL-94 V-0 (with halogen) thermoplastic polyester based on polybutylene terephthalate. The PBT compounds combine excellent thermal, mechanical, electrical and chemical properties with very good dimensional stability. Suggestions for application: Technical items with good electrical properties, coloring and stiffness. Information provided by Radici group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Radici-Radiflam-B-RV-300-AE-Polybutylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	ISO 62

Mechanical Properties	Metric	English	Comments
Elongation at Break	110 %	110 %	ISO 527-2/1A
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527-2/1A
Flexural Strength	160 MPa	23200 psi	ISO 178/1A
Flexural Modulus	7.20 GPa	1040 ksi	ISO 178/1A
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179 eU
Charpy Impact, Notched	0.750 J/cm ²	3.57 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	ISO 11357-1-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-2/Af
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-2/Af
Vicat Softening Point	200 °C @Load 5.10 kg	392 °F @Load 11.2 lb	50°C/h; ISO 306/B50
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
Glow Wire Test	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	CEI 695-2-1/2

Thermal Properties

Metric

English

Comments

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