

Ensinger ENSITEP® PBT Polybutylene Terephthalate - Extruded Products (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Extrusion Grade

Material Notes:

ENSITEP BT is an unreinforced thermoplastic polyester derived from polybutylene terephthalate. Its excellent wear and impact resistance, low coefficient of friction, high flexural modulus, and superior dimensional stability make it a versatile material for designing mechanical and electro-mechanical parts. Because ENSITEP BT has no centerline porosity, the possibility of fluid absorption and leakage is virtually eliminated. Uses: ENSITEP's superior wear resistance and lack of centerline porosity give it an advantage over other materials for applications involving solvents, chemicals, and food products. ENSITEP is also used in water purification systems, printing equipment, textile components, food-handling equipment, and valves. Ensitop grades have been replaced by Tecapet. Information supplied by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-ENSITEP-PBT-Polybutylene-Terephthalate-Extruded-Products-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	72	72	ASTM D785
Tensile Strength at Break	59.9 MPa	8690 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Modulus of Elasticity	2.86 GPa	415 ksi	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	ASTM D790
Shear Modulus	1.04 GPa	151 ksi	
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	83.5 µm/m-°C	46.4 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft ² -°F	ASTM C177

Melting Point Thermal Properties	254 °C Metric	489 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	154 °C	309 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.2 @Frequency 100 Hz	3.2 @Frequency 100 Hz	ASTM D150
Dielectric Strength	15.7 kV/mm @Thickness 3.17 mm	399 kV/in @Thickness 0.125 in	short term; ASTM D149
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	ASTM D150

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