

Plenco 1501 Polyester, Briquette, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester, Mineral Filled

Material Notes:

PLENCO 01501 is a general purpose, mineral filled granular polyester molding compound, offering excellent arc and track resistance properties, low post shrinkage, and improved mechanical strength values. UL recognized under component file E40654. 01501 is available in gray, blue, or tan color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1501-Polyester-Briquette-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	ASTM D1895
Density	1.89 g/cc	0.0683 lb/in ³	ASTM D792
Water Absorption	0.29 %	0.29 %	ASTM D570
Linear Mold Shrinkage	0.0053 cm/cm	0.0053 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	70	70	ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	0.59 %	0.59 %	ASTM D638
Tensile Modulus	11.6 GPa	1680 ksi	ASTM D638
Flexural Strength	92.0 MPa	13300 psi	ASTM D790
Flexural Modulus	11.3 GPa	1640 ksi	ASTM D790
Compressive Strength	161 MPa	23400 psi	ASTM D695
Poissons Ratio	0.32	0.32	ASTM D638
Shear Modulus	4.39 GPa	637 ksi	Calculated
Izod Impact, Notched	0.226 J/cm	0.423 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.254 J/cm ²	1.21 ft-lb/in ²	ASTM D256
Impact	126	126	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 µm/m-°C	30.0 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	171 °C	340 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	24.6 %	24.6 %	ASTM D2863
Shrinkage	0.0167 %	0.0167 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+14 ohm-cm	2.50e+14 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	10.2 kV/mm	259 kV/in	Step by Step; ASTM D149
	12.4 kV/mm	315 kV/in	Short Time; ASTM D149
Dielectric Breakdown	14200 V	14200 V	1hr 120C; ASTM D149
Dissipation Factor	0.0278	0.0278	ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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