

Plenco 1501 Polyester, Briquette, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.680 g/cc	0.0246 lb/in ³	ASTM D1895
Density	1.89 g/cc	0.0683 lb/in ³	ASTM D792
Water Absorption	0.299 %	0.299 %	ASTM D570
Linear Mold Shrinkage	0.0031 cm/cm	0.0031 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	70	70	ASTM D785
Tensile Strength, Ultimate	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	0.57 %	0.57 %	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ASTM D790
Flexural Modulus	10.8 GPa	1570 ksi	ASTM D790
Compressive Strength	153 MPa	22200 psi	ASTM D695
Izod Impact, Notched	0.248 J/cm	0.465 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.265 J/cm ²	1.26 ft-lb/in ²	ASTM D256
Impact	137	137	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.700 W/m-K @Temperature 100 °C	4.86 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	167 °C	333 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa			ASTM D648

(264 psi) Thermal Properties	200 °C Metric	392 °F English	Comments
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	24 %	24 %	ASTM D2863
Shrinkage	0.043 %	0.043 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.20e+14 ohm-cm	3.20e+14 ohm-cm	ASTM D247
Dielectric Constant	5.3	5.3	ASTM D150
Dielectric Strength	10.3 kV/mm	262 kV/in	Step by Step; ASTM D149
	12.6 kV/mm	320 kV/in	Short Time; ASTM D149
Dielectric Breakdown	20200 V	20200 V	1hr 94C; 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China