

Plenco 1506 Polyester, Briquette, Injection Molded

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

Material Notes:

PLENCO 01506 is a mineral and cellulose filled granular polyester molding compound, with glass fiber reinforcement for improved mechanical strength properties. 01506 offers excellent electrical properties and resistance to chemical degradation from repeated detergent exposure. UL recognized under component file E40654. 01506 is available in beige or taupe color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1506-Polyester-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.690 g/cc	0.0249 lb/in ³	ASTM D1895
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	0.151 %	0.151 %	ASTM D570
Linear Mold Shrinkage	0.0058 cm/cm	0.0058 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	61	61	ASTM D785
Tensile Strength, Ultimate	54.0 MPa	7830 psi	ASTM D638
Elongation at Break	1.11 %	1.11 %	ASTM D638
Tensile Modulus	9.90 GPa	1440 ksi	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	9.20 GPa	1330 ksi	ASTM D790
Compressive Strength	131 MPa	19000 psi	ASTM D695
Izod Impact, Notched	0.292 J/cm	0.547 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.255 J/cm ²	1.21 ft-lb/in ²	ASTM D256
Impact	207	207	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	76.0 µm/m-°C	42.2 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	192 °C	378 °F	Heat Resistance; ASTM D570D

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	225 °C Metric	439 °F English	ASTM D240 Comments
Flammability, UL94	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	
Oxygen Index	32 %	32 %	ASTM D2863
Shrinkage	0.0206 %	0.0206 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.60e+14 ohm-cm	7.60e+14 ohm-cm	ASTM D247
Dielectric Constant	4.2	4.2	ASTM D150
Dielectric Strength	11.7 kV/mm	297 kV/in	Step by Step; ASTM D149
	13.6 kV/mm	345 kV/in	Short Time; ASTM D149
Dielectric Breakdown	20900 V	20900 V	1hr 120C; ASTM D149
Dissipation Factor	0.019	0.019	ASTM D150
Arc Resistance	191 sec	191 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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