

Plenco 1508 Polyester, Briquette, Injection Molded

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

Material Notes:

PLENCO 01508 is a mineral filled pelletized polyester molding compound, which offers excellent heat resistance and electrical properties.

UL recognized under component file E40654. 01508 is available in gray. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1508-Polyester-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.940 g/cc	0.0340 lb/in ³	ASTM D1895
Density	2.07 g/cc	0.0748 lb/in ³	ASTM D792
Water Absorption	0.11 %	0.11 %	ASTM D570
Linear Mold Shrinkage	0.0052 cm/cm	0.0052 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	67	67	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.86 %	0.86 %	ASTM D638
Tensile Modulus	12.1 GPa	1750 ksi	ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Strength	139 MPa	20200 psi	ASTM D695
Poissons Ratio	0.283	0.283	ASTM D638
Shear Modulus	4.72 GPa	685 ksi	Calculated
Izod Impact, Notched	0.272 J/cm	0.510 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.255 J/cm ²	1.21 ft-lb/in ²	ASTM D256
Impact	172	172	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@ Temperature 40.0 - 130 °C	@ Temperature 104 - 266 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	233 °C	451 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Shrinkage	0.0117 %	0.0117 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+15 ohm-cm	1.40e+15 ohm-cm	ASTM D247
Dielectric Constant	5.0	5.0	ASTM D150
Dielectric Strength	10.6 kV/mm	269 kV/in	Step by Step; ASTM D149
	12.6 kV/mm	320 kV/in	Short Time; ASTM D149
Dielectric Breakdown	22800 V	22800 V	ASTM D149
Dissipation Factor	0.0139	0.0139	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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