

## Plenco 1508 Polyester, Briquette, Transfer 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-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-1508-Polyester-Briquette-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	ASTM D1895
Density	2.08 g/cc	0.0751 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.123 %	0.123 %	ASTM D570
Linear Mold Shrinkage	0.0034 cm/cm	0.0034 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	77	77	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.55 %	0.55 %	ASTM D638
Tensile Modulus	13.2 GPa	1910 ksi	ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	13.9 GPa	2020 ksi	ASTM D790
Compressive Strength	161 MPa	23400 psi	ASTM D695
Poissons Ratio	0.284	0.284	ASTM D638
Shear Modulus	5.14 GPa	746 ksi	Calculated
Izod Impact, Notched	0.241 J/cm	0.451 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.276 J/cm <sup>2</sup>	1.31 ft-lb/in <sup>2</sup>	ASTM D256
Impact	115	115	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 40.0 - 130 $^{\circ}\text{C}$	29.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 104 - 266 $^{\circ}\text{F}$	TMA; ASTM E831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	231 °C	448 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	47 %	47 %	ASTM D2863
Shrinkage	0.0060 %	0.0060 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+15 ohm-cm	1.30e+15 ohm-cm	ASTM D247
Dielectric Constant	4.8	4.8	ASTM D150
Dielectric Strength	10.2 kV/mm	259 kV/in	Step by Step; ASTM D149
	12.3 kV/mm	312 kV/in	Short Time; ASTM D149
Dielectric Breakdown	22500 V	22500 V	ASTM D149
Dissipation Factor	0.0149	0.0149	ASTM D150
Arc Resistance	188 sec	188 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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