

Plenco 6500 Phenolic, Briquette, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Glass/Flock Filled

Material Notes:

PLENCO 06500 is a glass reinforced phenolic molding compound offering improved strength, dimensional stability, and excellent electrical properties. UL recognized under component file E40654. 06500 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6500-Phenolic-Briquette-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ASTM D1895
Density	1.76 g/cc	0.0636 lb/in ³	ASTM D792
Water Absorption	0.101 %	0.101 %	ASTM D570
Linear Mold Shrinkage	0.00116 cm/cm	0.00116 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	99	99	ASTM D785
Tensile Strength, Ultimate	92.0 MPa	13300 psi	ASTM D638
Elongation at Break	0.85 %	0.85 %	ASTM D638
Tensile Modulus	14.3 GPa	2070 ksi	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	14.5 GPa	2100 ksi	ASTM D790
Compressive Strength	243 MPa	35200 psi	ASTM D695
Poissons Ratio	0.31	0.31	ASTM D638
Shear Modulus	5.46 GPa	792 ksi	Calculated
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.370 J/cm ²	1.76 ft-lb/in ²	ASTM D256
Impact	230	230	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	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)	224 °C	435 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Oxygen Index	35 %	35 %	ASTM D2863
Shrinkage	0.043 %	0.043 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.60e+11 ohm-cm	6.60e+11 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	17.1 kV/mm	434 kV/in	Short Time; ASTM D149
Dissipation Factor	0.033	0.033	ASTM D150
Arc Resistance	136 sec	136 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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