

Plenco 6500 Phenolic, Briquette, Injection 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-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.720 g/cc	0.0260 lb/in ³	ASTM D1895
Density	1.77 g/cc	0.0639 lb/in ³	ASTM D792
Water Absorption	0.099 %	0.099 %	ASTM D570
Linear Mold Shrinkage	0.0031 cm/cm	0.0031 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	96	96	ASTM D785
Tensile Strength, Ultimate	78.0 MPa	11300 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	13.3 GPa	1930 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	12.7 GPa	1840 ksi	ASTM D790
Compressive Strength	214 MPa	31000 psi	ASTM D695
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.296 J/cm ²	1.41 ft-lb/in ²	ASTM D256
Impact	177	177	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	
Thermal Conductivity	0.540 W/m-K	3.75 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM E1461
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	

Maximum Service Temperature, Air Thermal Properties	194 °C Metric	381 °F English	Heat Resistance; ASTM D570D Comments
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Oxygen Index	34 %	34 %	ASTM D2863
Shrinkage	0.084 %	0.084 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.30e+11 ohm-cm	5.30e+11 ohm-cm	ASTM D247
Dielectric Constant	5.0	5.0	ASTM D150
Dielectric Strength	8.40 kV/mm	213 kV/in	Step by Step; ASTM D149
	20.9 kV/mm	531 kV/in	Short Time; ASTM D149
Dissipation Factor	0.033	0.033	ASTM D150
Arc Resistance	159 sec	159 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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