

Plenco 6015 Phenolic, Briquette, Injection Molded

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

Material Notes:

PLENCO 06015 is a glass and mineral filled phenolic molding compound offering improved mechanical strength, dimensional stability and excellent electrical properties. 06015 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6015-Phenolic-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in ³	ASTM D1895
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.00206 cm/cm	0.00206 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	88	88	ASTM D785
Tensile Strength, Ultimate	73.0 MPa	10600 psi	ASTM D638
Elongation at Break	0.83 %	0.83 %	ASTM D638
Tensile Modulus	15.4 GPa	2230 ksi	ASTM D638
Flexural Strength	123 MPa	17800 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Compressive Strength	166 MPa	24100 psi	ASTM D695
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.299 J/cm ²	1.42 ft-lb/in ²	ASTM D256
Impact	136	136	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	265 °C	509 °F	ASTM D648
Shrinkage	0.14 %	0.14 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.90e+11 ohm-cm	1.90e+11 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	12.5 kV/mm	318 kV/in	Short Time; ASTM D149
Dissipation Factor	0.046	0.046	ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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