

Plenco 6015 Phenolic, Briquette, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in ³	ASTM D1895
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D792
Water Absorption	0.078 %	0.078 %	ASTM D570
Linear Mold Shrinkage	0.00090 cm/cm	0.00090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	94	94	ASTM D785
Tensile Strength, Ultimate	101 MPa	14600 psi	ASTM D638
Elongation at Break	0.84 %	0.84 %	ASTM D638
Tensile Modulus	15.3 GPa	2220 ksi	ASTM D638
Flexural Strength	163 MPa	23600 psi	ASTM D790
Flexural Modulus	15.1 GPa	2190 ksi	ASTM D790
Compressive Strength	215 MPa	31200 psi	ASTM D695
Poissons Ratio	0.31	0.31	ASTM D638
Shear Modulus	5.84 GPa	847 ksi	Calculated
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ASTM D256
Impact	206	206	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 µm/m-°C	27.2 µin/in-°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)	279 °C	534 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 3.10 mm	V-1 @Thickness 0.122 in	
Shrinkage	0.056 %	0.056 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+12 ohm-cm	2.00e+12 ohm-cm	ASTM D247
Dielectric Constant	5.0	5.0	ASTM D150
Dielectric Strength	11.5 kV/mm	292 kV/in	Step by Step; ASTM D149
	16.3 kV/mm	414 kV/in	Short Time; ASTM D149
Dissipation Factor	0.028	0.028	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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