

Plenco 6990 Phenolic, Briquette, Injection Molded

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

Material Notes:

PLENCO 06990 is a glass and mineral filled novolac phenolic molding compound. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6990-Phenolic-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.790 g/cc	0.0285 lb/in ³	ASTM D1895
Density	1.77 g/cc	0.0639 lb/in ³	ASTM D792
Water Absorption	0.071 %	0.071 %	ASTM D570
Linear Mold Shrinkage	0.00275 cm/cm	0.00275 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.38 %	0.38 %	ASTM D638
Tensile Modulus	16.2 GPa	2350 ksi	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	14.6 GPa	2120 ksi	ASTM D790
Compressive Strength	156 MPa	22600 psi	ASTM D695
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.296 J/cm ²	1.41 ft-lb/in ²	ASTM D256
Impact	172	172	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	236 °C	457 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	263 °C	505 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.500 mm	@Thickness 0.0197 in	

Shrinkage Thermal Properties	0.068 % Metric	0.068 % English	72 hr, 120°C; ASTM D1299 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	8.20e+11 ohm-cm	8.20e+11 ohm-cm	ASTM D247
Dielectric Constant	5.5	5.5	ASTM D150
Dielectric Strength	14.1 kV/mm	358 kV/in	Short Time; ASTM D149
Dissipation Factor	0.062	0.062	ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	ASTM D3638

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