

Plenco 6990 Phenolic, Briquette, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.770 g/cc	0.0278 lb/in ³	ASTM D1895
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	0.057 %	0.057 %	ASTM D570
Linear Mold Shrinkage	0.0022 cm/cm	0.0022 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.37 %	0.37 %	ASTM D638
Tensile Modulus	17.1 GPa	2480 ksi	ASTM D638
Flexural Strength	123 MPa	17800 psi	ASTM D790
Flexural Modulus	16.3 GPa	2360 ksi	ASTM D790
Compressive Strength	195 MPa	28300 psi	ASTM D695
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.370 J/cm ²	1.76 ft-lb/in ²	ASTM D256
Impact	164	164	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.580 W/m-K @Temperature 100 °C	4.03 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	241 °C	466 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	278 °C	532 °F	ASTM D648

Thermal Properties Flammability, UL94	V-0 Metric	V-0 English	Comments
	@Thickness 0.500 mm	@Thickness 0.0197 in	
Oxygen Index	53 %	53 %	ASTM D2863
Shrinkage	0.0282 %	0.0282 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+12 ohm-cm	1.20e+12 ohm-cm	ASTM D247
Dielectric Constant	5.6	5.6	ASTM D150
Dielectric Strength	11.6 kV/mm	295 kV/in	Short Time; ASTM D149
Dissipation Factor	0.048	0.048	ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	ASTM D3638

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