

Plenco 7591 Phenolic, Briquette, Injection Molded

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

Material Notes:

PLENCO 07591 is a mineral and flock cotton 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-7591-Phenolic-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.560 g/cc	0.0202 lb/in ³	ASTM D1895
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.29 %	0.29 %	ASTM D570
Linear Mold Shrinkage	0.0072 cm/cm	0.0072 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.86 %	0.86 %	ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	ASTM D638
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	7.40 GPa	1070 ksi	ASTM D790
Compressive Strength	196 MPa	28400 psi	ASTM D695
Izod Impact, Notched	0.257 J/cm	0.481 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.256 J/cm ²	1.22 ft-lb/in ²	ASTM D256
Impact	193	193	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.420 W/m-K @Temperature 100 °C	2.91 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	197 °C	387 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	ASTM D648

Thermal Properties Flammability, UL94	V-0 Metric	V-0 English	Comments
	@Thickness 4.30 mm	@Thickness 0.169 in	
Shrinkage	0.34 %	0.34 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+11 ohm-cm	1.50e+11 ohm-cm	ASTM D247
Dielectric Constant	5.3	5.3	ASTM D150
Dielectric Strength	10.2 kV/mm	259 kV/in	Short Time; ASTM D149
Dissipation Factor	0.065	0.065	ASTM D150
Arc Resistance	155 sec	155 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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