

Plenco 6401 Phenolic, Briquette, Transfer Molded

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

Material Notes:

PLENCO 06401 is a glass fiber and mineral filled two-stage phenolic molding compound. UL recognized under component file E40654.

06401 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6401-Phenolic-Briquette-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	ASTM D1895
Density	1.76 g/cc	0.0636 lb/in ³	ASTM D792
Water Absorption	0.066 %	0.066 %	ASTM D570
Linear Mold Shrinkage	0.00086 cm/cm	0.00086 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	99	99	ASTM D785
Tensile Strength, Ultimate	108 MPa	15700 psi	ASTM D638
Elongation at Break	0.84 %	0.84 %	ASTM D638
Tensile Modulus	15.8 GPa	2290 ksi	ASTM D638
Flexural Strength	182 MPa	26400 psi	ASTM D790
Flexural Modulus	16.2 GPa	2350 ksi	ASTM D790
Compressive Strength	282 MPa	40900 psi	ASTM D695
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.440 J/cm ²	2.09 ft-lb/in ²	ASTM D256
Impact	260	260	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	228 °C	442 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Shrinkage Thermal Properties	0.040 % Metric	0.040 % English	72 hr, 120°C; ASTM D1299 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	5.20e+11 ohm-cm	5.20e+11 ohm-cm	ASTM D247
Dielectric Constant	5.6	5.6	ASTM D150
Dielectric Strength	8.60 kV/mm	218 kV/in	Step by Step; ASTM D149
	11.7 kV/mm	297 kV/in	Short Time; ASTM D149
Dissipation Factor	0.031	0.031	ASTM D150
Arc Resistance	102 sec	102 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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