

Plenco 6401 Phenolic, Briquette, Injection 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-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Water Absorption	0.071 %	0.071 %	ASTM D570
Linear Mold Shrinkage	0.0022 cm/cm	0.0022 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	97	97	ASTM D785
Tensile Strength, Ultimate	93.0 MPa	13500 psi	ASTM D638
Elongation at Break	0.73 %	0.73 %	ASTM D638
Tensile Modulus	15.9 GPa	2310 ksi	ASTM D638
Flexural Strength	177 MPa	25700 psi	ASTM D790
Flexural Modulus	14.8 GPa	2150 ksi	ASTM D790
Compressive Strength	251 MPa	36400 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	5.98 GPa	867 ksi	Calculated
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.390 J/cm ²	1.86 ft-lb/in ²	ASTM D256
Impact	310	310	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	226 °C	439 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	201 °C	394 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.050 %	0.050 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.10e+12 ohm-cm	1.10e+12 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	15.0 kV/mm	381 kV/in	Short Time; ASTM D149
Dissipation Factor	0.286	0.286	ASTM D150
Arc Resistance	70 sec	70 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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