

Plenco 6401 Phenolic, Granular, Compression 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-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.730 g/cc	0.0264 lb/in ³	ASTM D1895
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D792
Water Absorption	0.075 %	0.075 %	ASTM D570
Linear Mold Shrinkage	0.00146 cm/cm	0.00146 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	97	97	ASTM D785
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	0.57 %	0.57 %	ASTM D638
Tensile Modulus	14.3 GPa	2070 ksi	ASTM D638
Flexural Strength	116 MPa	16800 psi	ASTM D790
Flexural Modulus	13.2 GPa	1910 ksi	ASTM D790
Compressive Strength	252 MPa	36500 psi	ASTM D695
Poissons Ratio	0.31	0.31	ASTM D638
Shear Modulus	5.46 GPa	792 ksi	Calculated
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ASTM D256
Impact	272	272	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)	226 °C	439 °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	3.10e+12 ohm-cm	3.10e+12 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	14.7 kV/mm	373 kV/in	Short Time; ASTM D149
Dissipation Factor	0.0255	0.0255	ASTM D150
Arc Resistance	115 sec	115 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China