

Plenco 6802 Phenolic, Granular, Transfer Molded (discontinued **)

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

Material Notes:

Two-Stage Phenolic. PLENCO 06802 is a mica and mineral filled novolac phenolic molding compound. Available in Brown. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6802-Phenolic-Granular-Transfer-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	ASTM D792
Apparent Bulk Density	0.890 g/cc	0.0322 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.0039 cm/cm	0.0039 in/in	per ATM D955. Post shrinkage is 0.07% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	74	74	ASTM D785
Tensile Strength, Ultimate	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	0.47 %	0.47 %	ASTM D638
Tensile Modulus	12.98 GPa	1883 ksi	ASTM D638
Flexural Yield Strength	89.8 MPa	13000 psi	ASTM D790
Flexural Modulus	14.36 GPa	2083 ksi	ASTM D790
Compressive Yield Strength	174.2 MPa	25270 psi	ASTM D695
Poissons Ratio	0.27	0.27	In tension
Shear Modulus	5.12 GPa	743 ksi	Calculated
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ASTM D256
Impact	71	71	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
CTE, linear	37.0 µm/m-°C	20.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	202 °C	396 °F	Heat resistance per ASTM D794

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	164 °C	327 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.646e+12 ohm-cm	3.646e+12 ohm-cm	ASTM D257
Dielectric Constant	4.9	4.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	Short Time; ASTM D149
Dissipation Factor	0.041	0.041	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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