

Plenco 6343 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 06343 is a mica reinforced phenolic molding compound, offering for a low power factor, low electrical losses, and good electrical properties after long exposures to high humidity. UL recognized under component file E40654. 06343 is available in natural color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6343-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.810 g/cc	0.0293 lb/in ³	ASTM D1895
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Water Absorption	0.044 %	0.044 %	ASTM D570
Linear Mold Shrinkage	0.0033 cm/cm	0.0033 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	77	77	ASTM D785
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Elongation at Break	0.31 %	0.31 %	ASTM D638
Tensile Modulus	14.9 GPa	2160 ksi	ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	14.1 GPa	2050 ksi	ASTM D790
Compressive Strength	173 MPa	25100 psi	ASTM D695
Poissons Ratio	0.279	0.279	ASTM D638
Shear Modulus	5.82 GPa	844 ksi	Calculated
Izod Impact, Notched	0.173 J/cm	0.324 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.212 J/cm ²	1.01 ft-lb/in ²	ASTM D256
Impact	84	84	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 µm/m-°C	11.7 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	216 °C	421 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	43 %	43 %	ASTM D2863
Shrinkage	0.047 %	0.047 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.80e+12 ohm-cm	5.80e+12 ohm-cm	ASTM D247
Dielectric Constant	4.9	4.9	ASTM D150
Dielectric Strength	15.6 kV/mm	396 kV/in	Step by Step; ASTM D149
	18.4 kV/mm	467 kV/in	Short Time; ASTM D149
Dissipation Factor	0.034	0.034	ASTM D150
Arc Resistance	183 sec	183 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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