

Plenco 3303 Phenolic, Granular, Compression Molded

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

Material Notes:

Plenco 03303 is a renumber of Plaslok 5303. Plenco 03303 is a two-stage, mineral and flock-filled phenolic molding compound offering excellent electrical insulating properties. It can be processed by compression, transfer or injection molding . It is UL recognized under file E40654.Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-3303-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.720 g/cc	0.0260 lb/in ³	ASTM D1895
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Water Absorption	0.208 %	0.208 %	ASTM D570
Linear Mold Shrinkage	0.00289 cm/cm	0.00289 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	76	76	ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	0.53 %	0.53 %	ASTM D638
Tensile Modulus	11.6 GPa	1680 ksi	ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ASTM D790
Flexural Modulus	10.5 GPa	1520 ksi	ASTM D790
Compressive Strength	159 MPa	23100 psi	ASTM D695
Izod Impact, Notched	0.174 J/cm	0.326 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.213 J/cm ²	1.01 ft-lb/in ²	ASTM D256
Impact	104	104	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	205 °C	401 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.142 %	0.142 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+12 ohm-cm	1.80e+12 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	10.6 kV/mm	269 kV/in	Step by Step; ASTM D149
	15.8 kV/mm	401 kV/in	Short Time; ASTM D149
Dissipation Factor	0.045	0.045	ASTM D150
Arc Resistance	182 sec	182 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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