

Plenco 08112 Polyester BMC, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

PLENCO 08112 is a renumber of PlasGlas 10112. PLENCO 08112 is a general purpose polyester bulk molding compound that is characterized by adding utility to a number of applications. Because of its combination of high heat resistance, good electrical properties and strength, it can be used in such applications as iron skirts and other small appliance housings, coil bobbins, and electric motor components such as brush holders. It is available in either bulk or extruded form and is currently available in natural. Other colors are available upon request. It is UL recognized under file E40654. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-08112-Polyester-BMC-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	2.03 g/cc	0.0733 lb/in ³	ASTM D792
Water Absorption	0.093 %	0.093 %	ASTM D570
Linear Mold Shrinkage	0.00228 cm/cm	0.00228 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	52	52	ASTM D785
Tensile Strength, Ultimate	39.0 MPa	5660 psi	ASTM D638
Elongation at Break	0.39 %	0.39 %	ASTM D638
Tensile Modulus	16.6 GPa	2410 ksi	ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Compressive Strength	125 MPa	18100 psi	ASTM D695
Izod Impact, Notched	2.37 J/cm	4.44 ft-lb/in	ASTM D256
Charpy Impact, Notched	2.31 J/cm ²	11.0 ft-lb/in ²	ASTM D256
Impact	810	810	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	228 °C	442 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	267 °C	513 °F	ASTM D648
	HB	HB	

Thermal Properties	Metric @ Thickness 1.50 mm	English @ Thickness 0.0591 in	Comments
Shrinkage	0.00 %	0.00 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.90e+15 ohm-cm	9.90e+15 ohm-cm	ASTM D247
Dielectric Constant	4.9	4.9	ASTM D150
Dielectric Strength	9.70 kV/mm	246 kV/in	Step by Step; ASTM D149
	11.8 kV/mm	300 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V	23000 V	1hr 120C; ASTM D149
Dissipation Factor	0.0096	0.0096	ASTM D150
Arc Resistance	188 sec	188 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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