

Plenco 08122 Polyester BMC, Compression Molded

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

Material Notes:

PLENCO 08122 is a renumber of PlasGlas 10212. PLENCO 08122 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, flame resistance 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-08122-Polyester-BMC-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	ASTM D792
Water Absorption	0.093 %	0.093 %	ASTM D570
Linear Mold Shrinkage	0.0032 cm/cm	0.0032 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	47	47	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.69 %	0.69 %	ASTM D638
Tensile Modulus	13.5 GPa	1960 ksi	ASTM D638
Flexural Strength	113 MPa	16400 psi	ASTM D790
Flexural Modulus	12.3 GPa	1780 ksi	ASTM D790
Compressive Strength	140 MPa	20300 psi	ASTM D695
Poissons Ratio	0.30	0.30	ASTM D638
Shear Modulus	5.19 GPa	753 ksi	Calculated
Izod Impact, Notched	3.01 J/cm	5.64 ft-lb/in	ASTM D256
Charpy Impact, Notched	3.10 J/cm ²	14.8 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	217 °C	423 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	273 °C	523 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.10 mm	@Thickness 0.0433 in	
Shrinkage	0.00242 %	0.00242 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.60e+15 ohm-cm	2.60e+15 ohm-cm	ASTM D247
Dielectric Constant	4.7	4.7	ASTM D150
Dielectric Strength	9.90 kV/mm	251 kV/in	Step by Step; ASTM D149
	12.0 kV/mm	305 kV/in	Short Time; ASTM D149
Dielectric Breakdown	21800 V	21800 V	1hr 120C; ASTM D149
Dissipation Factor	0.037	0.037	ASTM D150
Arc Resistance	191 sec	191 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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