

Plenco 08225 Polyester BMC, Compression Molded

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

Material Notes:

PLENCO 08225 is a renumber of PlasGlas 20215. PLENCO 08225 is a 15% glass-filled polyester bulk molding compound characterized as a medium strength electrical grade, but has many outstanding properties that make it suitable for a broad range of applications such as coil bobbins, where assembly and end use environments are particularly strenuous. It is available in bulk or extruded form, natural and black.

Other colors 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-08225-Polyester-BMC-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.93 g/cc	0.0697 lb/in ³	ASTM D792
Water Absorption	0.073 %	0.073 %	ASTM D570
Linear Mold Shrinkage	0.00281 cm/cm	0.00281 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	51	51	ASTM D785
Tensile Strength, Ultimate	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	0.56 %	0.56 %	ASTM D638
Tensile Modulus	14.0 GPa	2030 ksi	ASTM D638
Flexural Strength	113 MPa	16400 psi	ASTM D790
Flexural Modulus	13.3 GPa	1930 ksi	ASTM D790
Compressive Strength	136 MPa	19700 psi	ASTM D695
Izod Impact, Notched	2.89 J/cm	5.41 ft-lb/in	ASTM D256
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	236 °C	457 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	273 °C	523 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.00143 %	0.00143 %	72 hr, 120°C; ASTM D1299

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+16 ohm-cm	2.20e+16 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	10.6 kV/mm	269 kV/in	Step by Step; ASTM D149
	12.8 kV/mm	325 kV/in	Short Time; ASTM D149
Dielectric Breakdown	22750 V	22750 V	1hr 120C; ASTM D149
Dissipation Factor	0.0059	0.0059	ASTM D150
Arc Resistance	183 sec	183 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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