

Plenco 08218 Polyester BMC, Compression Molded

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

Material Notes:

PLENCO 08218 is a renumber of PlasGlas 20118. PLENCO 08218 is an 18% glass-filled polyester bulk molding compound characterized as an electrical grade, but has many outstanding properties that make it suitable for a broad range of applications. Because of its excellent electrical resistance and mechanical strength, it is well suited to commercial/industrial heavy duty electrical parts, including enclosures for power distribution equipment, fuse holders, circuit breaker cases, electric motor housings and components. It is available in bulk or extruded form, and currently in the colors of natural and light gray. 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-08218-Polyester-BMC-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D792
Water Absorption	0.091 %	0.091 %	ASTM D570
Linear Mold Shrinkage	0.0038 cm/cm	0.0038 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	46	46	ASTM D785
Tensile Strength, Ultimate	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	0.59 %	0.59 %	ASTM D638
Tensile Modulus	13.2 GPa	1910 ksi	ASTM D638
Flexural Strength	133 MPa	19300 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Compressive Strength	136 MPa	19700 psi	ASTM D695
Poissons Ratio	0.296	0.296	ASTM D638
Shear Modulus	5.09 GPa	738 ksi	Calculated
Izod Impact, Notched	4.30 J/cm	8.06 ft-lb/in	ASTM D256
Charpy Impact, Notched	4.30 J/cm ²	20.5 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	222 °C	432 °F	Heat Resistance; ASTM D570D

Deflection Temperature at 1.8 MPa (150 psi) Thermal Properties	271 °C Metric	520 °F English	ASTM D648 Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.0013 %	0.0013 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.30e+15 ohm-cm	2.30e+15 ohm-cm	ASTM D247
Dielectric Constant	4.4	4.4	ASTM D150
Dielectric Strength	10.9 kV/mm	277 kV/in	Step by Step; ASTM D149
	13.5 kV/mm	343 kV/in	Short Time; ASTM D149
Dielectric Breakdown	22645 V	22645 V	1hr 120C; ASTM D149
Dissipation Factor	0.0229	0.0229	ASTM D150
Arc Resistance	191 sec	191 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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