

Mar-Bal MB1000-10 Thermoset Polyester Composite Molding Compound

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

Material Notes:

A general purpose material that is easily customized. Designed for Powder Coating and Electrostatic painting. Mar-Bal standard grades can be injection, compression and transfer molded. Information provided by Mar-Bal, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mar-Bal-MB1000-10-Thermoset-Polyester-Composite-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 2.00 g/cc	1.90 - 2.00 g/cc	ASTM D792
Bulk Factor	1.0	1.0	ASTM D1895
Filler Content	10 %	10 %	Glass
Water Absorption	0.17 % @Time 86400 sec	0.17 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.00050 - 0.0030 cm/cm	0.00050 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	35 - 48	35 - 48	ASTM D2583
Tensile Strength	34.5 - 41.4 MPa	5000 - 6000 psi	ASTM D638
Flexural Strength	96.5 - 110 MPa	14000 - 16000 psi	ASTM D790
Flexural Modulus	13.8 - 15.2 GPa	2000 - 2200 ksi	ASTM D790
Compressive Strength	103 - 124 MPa	15000 - 18000 psi	ASTM D695
Shear Strength	41.4 - 48.3 MPa	6000 - 7000 psi	ASTM D732
Izod Impact, Notched	1.33 - 1.87 J/cm	2.50 - 3.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 Â°C	>= 500 Â°F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	12.6 kV/mm	320 kV/in	ASTM D149

Arc Resistance Electrical Properties	>= 180 sec Metric	>= 180 sec English	ASTM D495 Comments
Track Resistance	3000 sec	3000 sec	Inclined-Plane Tracking; ASTM D2303

Descriptive Properties	Value	Comments
Listed File E80533	No	

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