

Mar-Bal MB4000 Thermoset Polyester Composite Molding Compound

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

Material Notes:

The high track resistant material. A flame retardant polyester molding compound with moderate strength and excellent electrical properties and exceptional arc and track resistance. Suitable for replacing porcelain in insulator and other electrical applications where higher track resistance is critical. 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-MB4000-Thermoset-Polyester-Composite-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.90 g/cc	1.70 - 1.90 g/cc	ASTM D792
Bulk Factor	1.0 - 1.5	1.0 - 1.5	ASTM D1895
Water Absorption	0.12 % @Time 86400 sec	0.12 % @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	41 - 47	41 - 47	ASTM D2583
Tensile Strength	34.5 - 44.8 MPa	5000 - 6500 psi	ASTM D638
Flexural Strength	89.6 - 117 MPa	13000 - 17000 psi	ASTM D790
Flexural Modulus	11.7 - 13.1 GPa	1700 - 1900 ksi	ASTM D790
Compressive Strength	96.5 - 103 MPa	14000 - 15000 psi	ASTM D695
Izod Impact, Notched	3.74 - 5.34 J/cm	7.00 - 10.0 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	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.8 kV/mm	350 kV/in	ASTM D149
Arc Resistance	>= 185 sec	>= 185 sec	ASTM D495
Track Resistance			Inclined-Plane Tracking; ASTM

Electrical Properties	9000 sec Metric	9000 sec English	02303 Comments
Descriptive Properties		Value	Comments
Listed File E80533		Yes	

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