

Mar-Bal MB2000-25 Thermoset Polyester Composite Molding Compound

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

Material Notes:

An excellent flame and track resistant material with excellent electrical and mechanical properties. Good dielectric strength and low shrink for close dimensional control. 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-MB2000-25-Thermoset-Polyester-Composite-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.75 g/cc	1.70 - 1.75 g/cc	ASTM D792
Bulk Factor	3.0	3.0	ASTM D1895
Filler Content	25 %	25 %	Glass
Water Absorption	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	ASTM D2583
Tensile Strength	58.6 - 68.9 MPa	8500 - 10000 psi	ASTM D638
Flexural Strength	159 - 172 MPa	23000 - 25000 psi	ASTM D790
Flexural Modulus	11.0 - 11.7 GPa	1600 - 1700 ksi	ASTM D790
Compressive Strength	138 - 172 MPa	20000 - 25000 psi	ASTM D695
Shear Strength	68.9 - 82.7 MPa	10000 - 12000 psi	ASTM D732
Izod Impact, Notched	5.34 - 6.41 J/cm	10.0 - 12.0 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

Electrical Properties	Metric	English	Comments
Arc Resistance	≥ 180 sec	≥ 180 sec	ASTM D495
Track Resistance	6000 sec	6000 sec	Inclined-Plane Tracking; ASTM D2303

Descriptive Properties	Value	Comments
Listed File E80533	Yes	

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