

Mar-Bal MB3000-15 Thermoset Polyester Composite Molding Compound

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

Material Notes:

A superior chemical resistant material with excellent flame and track resistance. 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-MB3000-15-Thermoset-Polyester-Composite-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 1.85 g/cc	1.80 - 1.85 g/cc	ASTM D792
Bulk Factor	1.5	1.5	ASTM D1895
Filler Content	15 %	15 %	Glass
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	40 - 50	40 - 50	ASTM D2583
Tensile Strength	37.9 - 41.4 MPa	5500 - 6000 psi	ASTM D638
Flexural Strength	103 - 117 MPa	15000 - 17000 psi	ASTM D790
Flexural Modulus	9.65 - 11.0 GPa	1400 - 1600 ksi	ASTM D790
Compressive Strength	124 - 138 MPa	18000 - 20000 psi	ASTM D695
Shear Strength	55.2 - 62.1 MPa	8000 - 9000 psi	ASTM D732
Izod Impact, Notched	2.67 - 3.74 J/cm	5.00 - 7.00 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	14.2 kV/mm	360 kV/in	ASTM D149

Arc Resistance Electrical Properties	>= 185 sec Metric	>= 185 sec English	ASTM D495 Comments
Track Resistance	6000 sec	6000 sec	Inclined-Plane Tracking; ASTM D2303

Descriptive Properties	Value	Comments
Listed File E80533	Yes	

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