

Mar-Bal MB3000-20NY 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-MB3000-20NY-Thermoset-Polyester-Composite-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.85 g/cc	1.75 - 1.85 g/cc	ASTM D792
Bulk Factor	1.5 - 2.0	1.5 - 2.0	ASTM D1895
Filler Content	20 %	20 %	Glass
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.00050 - 0.0015 cm/cm	0.00050 - 0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	45 - 55	45 - 55	ASTM D2583
Tensile Strength	41.4 - 62.1 MPa	6000 - 9000 psi	ASTM D638
Flexural Strength	124 - 145 MPa	18000 - 21000 psi	ASTM D790
Flexural Modulus	12.4 - 13.1 GPa	1800 - 1900 ksi	ASTM D790
Compressive Strength	96.5 - 110 MPa	14000 - 16000 psi	ASTM D695
Shear Strength	55.2 - 62.1 MPa	8000 - 9000 psi	ASTM D732
Izod Impact, Notched	4.27 - 7.47 J/cm	8.00 - 14.0 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	
	5VB	5VB	

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	14.2 kV/mm Metric	360 kV/in English	ASTM D149 Comments
Arc Resistance	>= 185 sec	>= 185 sec	ASTM D495
Track Resistance	6000 sec	6000 sec	Inclined-Plane Tracking; ASTM D2303

Descriptive Properties	Value	Comments
Color Change Under Heat, ÅE	1.2-1.7	White, 300Å°F for 300 hr
	1-1.5	Bisque, 300Å°F for 300 hr
Listed File E80533	Yes	

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