

Mar-Bal MB5500 Thermoset Polyester Composite Molding Compound

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

Material Notes:

A superior heat resistant material. U.L. RTI rating of 160Å°C-170Å°C. 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-MB5500-Thermoset-Polyester-Composite-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.80 g/cc	1.75 - 1.80 g/cc	ASTM D792
Bulk Factor	2.0	2.0	ASTM D1895
Water Absorption	0.12 % @Time 86400 sec	0.12 % @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	35 - 45	35 - 45	ASTM D2583
Tensile Strength	41.4 - 55.2 MPa	6000 - 8000 psi	ASTM D638
Flexural Strength	117 - 131 MPa	17000 - 19000 psi	ASTM D790
Flexural Modulus	11.0 - 12.4 GPa	1600 - 1800 ksi	ASTM D790
Compressive Strength	89.6 - 103 MPa	13000 - 15000 psi	ASTM D695
Shear Strength	48.3 - 55.2 MPa	7000 - 8000 psi	ASTM D732
Izod Impact, Notched	4.27 - 5.34 J/cm	8.00 - 10.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 - 170 Å°C	320 - 338 Å°F	UL RTI
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 Å°C	>= 500 Å°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 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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