

Bulk Molding Compounds BMC A50-XHS High Strength Grade Molding Compound

Category : Polymer , Thermoset , Polyester, TS , Polyester (Thermoset) - Rigid

Material Notes:

BMC A50-XHS is a high strength bulk molding compound. Due to the excellent flow and controlled reactivity, BMC A50-XHS is well suited for injection, transfer or compression molding. Typical applications are circuit breakers, light housings and structural parts. Information provided by Bulk Molding Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-A50-XHS-High-Strength-Grade-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.79 - 1.85 g/cc	0.0647 - 0.0668 lb/in ³	Molded
Linear Mold Shrinkage	0.0015 - 0.0032 cm/cm	0.0015 - 0.0032 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 50	30 - 50	
Tensile Strength	57.2 - 71.0 MPa	8300 - 10300 psi	
Flexural Strength	124 - 152 MPa	18000 - 22000 psi	
Flexural Modulus	11.7 - 13.1 GPa	1700 - 1900 ksi	
Compressive Strength	116 - 143 MPa	16800 - 20800 psi	
Izod Impact, Notched	5.34 - 6.41 J/cm	10.0 - 12.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	V-0	V-0	UL 94 V0/UL 94 5V

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.8 - 16.7 kV/mm	375 - 425 kV/in	short time
Arc Resistance	>= 186 sec	>= 186 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

Processing Properties	Metric	English	Comments
Processing Temperature	138 - 166 °C	280 - 330 °F	

Processing Properties	Metric	English	Comments
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