

Bulk Molding Compounds BMC T40(25)-XHS Die Casting Replacement Grade Molding Compound

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

Material Notes:

BMC T40(25)-XHS is a high strength molding compound with excellent dimensional stability. It is UL recognized and is available in a wide range of colors. Because of its superior physical properties and ability to maintain machined tolerances in a molding part it is used widely as a direct replacement for die castings. T40(25)-XHS can be injection, compression and transfer molded. Other uses are structural parts as well as circuit breakers. Information provided by Bulk Molding Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-T4025-XHS-Die-Casting-Replacement-Grade-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.69 - 1.89 g/cc	0.0611 - 0.0683 lb/in ³	Molded
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength	65.5 - 79.3 MPa	9500 - 11500 psi	
Flexural Strength	238 - 265 MPa	34500 - 38500 psi	
Flexural Modulus	13.8 - 15.9 GPa	2000 - 2300 ksi	
Compressive Strength	131 - 159 MPa	19000 - 23000 psi	
Izod Impact, Notched	7.47 - 8.54 J/cm	14.0 - 16.0 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	13.2 - 15.2 kV/mm	335 - 385 kV/in	short time
Arc Resistance	>= 183 sec	>= 183 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

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

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