

Bulk Molding Compounds BMC T40(18)-LS Die Casting Replacement Grade Molding Compound

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

Material Notes:

BMC T40(18)-LS is a low shrink compound designed as a direct replacement for aluminum die casting applications. T40(18)-LS is UL recognized. Excellent mechanical properties and dimensional stability allow molded parts to maintain machined tolerances. Typical applications are phase-barriers, fractional H.P. motor end bases and electrical parts. Information provided by Bulk Molding Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-T4018-LS-Die-Casting-Replacement-Grade-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.72 - 1.92 g/cc	0.0621 - 0.0694 lb/in ³	Molded
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	20 - 25	20 - 25	
Tensile Strength	62.1 - 75.8 MPa	9000 - 11000 psi	
Flexural Strength	183 - 210 MPa	26500 - 30500 psi	
Flexural Modulus	14.5 - 15.9 GPa	2100 - 2300 ksi	
Compressive Strength	129 - 152 MPa	18700 - 22000 psi	
Izod Impact, Notched	3.74 - 4.81 J/cm	7.00 - 9.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	5VA	5VA	

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.3 - 16.3 kV/mm	363 - 413 kV/in	short time
Arc Resistance	>= 190 sec	>= 190 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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