

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

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

Material Notes:

BMC T40(18) was formulated as a direct replacement for aluminum die casting applications. T40(18) is UL recognized. Excellent mechanical properties and dimensional control allow molded parts to maintain machined tolerances. Typical applications are fractional H.P. motor end bases, electrical 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-T4018-Die-Casting-Replacement-Grade-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.79 - 1.92 g/cc	0.0647 - 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	50 - 60	50 - 60	
Tensile Strength	65.5 - 79.3 MPa	9500 - 11500 psi	
Flexural Strength	134 - 162 MPa	19500 - 23500 psi	
Flexural Modulus	6.89 - 8.27 GPa	1000 - 1200 ksi	
Compressive Strength	131 - 159 MPa	19000 - 23000 psi	
Izod Impact, Notched	4.27 - 5.34 J/cm	8.00 - 10.0 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	>= 190 sec	>= 190 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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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China