

Bulk Molding Compounds BMC 851 Corrosion Resistant, Flame Retardant Molding Compound

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

Material Notes:

BMC 851 is a high strength, corrosion resistant and flame retardant molding compound. As with all other BMCI compounds, this Series can be supplied in logs, slugs or bulk form. Typical applications are small engine valve covers and structural components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-851-Corrosion-Resistant-Flame-Retardant-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.90 g/cc	1.75 - 1.90 g/cc	
Water Absorption	0.14 - 0.20 %	0.14 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	48.3 - 62.1 MPa	7000 - 9000 psi	
Tensile Modulus	0.0131 - 0.0145 GPa	1.90 - 2.10 ksi	
Flexural Strength	117 - 138 MPa	17000 - 20000 psi	
Flexural Modulus	11.0 - 12.4 GPa	1600 - 1800 ksi	
Compressive Strength	131 - 145 MPa	19000 - 21000 psi	
Poissons Ratio	0.36 - 0.39	0.36 - 0.39	
Izod Impact, Notched	3.74 - 5.34 J/cm	7.00 - 10.0 ft-lb/in	
Dynatup @ -18°C	12.2 - 14.2 J @Thickness 3.17 mm	9.00 - 10.5 ft-lb @Thickness 0.125 in	
Dynatup @ -18°C Max Load	163000 - 177000 g	360 - 390 lb	

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 - 42.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 - 125 $^{\circ}\text{C}$	21.1 - 23.3 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 - 257 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	≥ 260 $^{\circ}\text{C}$	≥ 500 $^{\circ}\text{F}$	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	165 °C	329 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	

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

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