

IDI BMC 46-3

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: 40 SERIES BMC
PRODUCT DESCRIPTION: DIELECTRIC & FLAME RESISTANT
Electrical applications requiring a composite material that possesses a UL Yellow card and flammability performance from UL94 HB, V-0 & 5VA. These materials can be found in Underwriters Laboratory file E53587.

General Information			
UL YellowCard	E53587-243404		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
UL File Number	E53587		
Forms	BMC - Bulk Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.90	g/cm ³	ASTM D792
Bulk Factor	1.0		ASTM D1895
Molding Shrinkage - Flow	0.0 to 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 to 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	20 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	20.7	MPa	ASTM D638
Flexural Strength	55.2	MPa	ASTM D790
Compressive Strength	89.6	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	12	kV/mm	ASTM D149
Arc Resistance	> 180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	UL 94		
1.59 mm	V-0		
3.18 mm	V-0		
6.35 mm	V-0		

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