

IDI BMC Rosite 3550D

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: Rosite 3000 SERIES BMC
PRODUCT DESCRIPTION: HIGH STRENGTH UL YELLOW CARD
These high strength BMC composites are suitable for use in electrical applications requiring materials that possesses dielectric properties and flammability performance from UL94 HB, V-0 & 5VA. These materials can be found in Underwriters Laboratory file E53587.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	High Strength		
Uses	Electrical/Electronic Applications		
UL File Number	E53587		
Forms	BMC - Bulk Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	41.4 to 48.3	MPa	ASTM D638
Flexural Modulus	11700 to 13100	MPa	ASTM D790
Flexural Strength	124 to 152	MPa	ASTM D790
Compressive Strength	145 to 152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	210 to 320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
Continuous Use Temperature	149	°C	ASTM D794
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹	12	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	5.15 to 5.35		
1 MHz	4.80 to 5.00		
Dissipation Factor			ASTM D150
1 kHz	0.017 to 0.019		
1 MHz	0.010 to 0.012		

Arc Resistance	170 to 180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94
NOTE			
1.	Method A (Short-Time)		

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Recommended distributors for this material


Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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