

# IDI SMC E-204

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: E200 SERIES SMC  
PRODUCT DESCRIPTION: UL YELLOW CARD SMC  
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	E53587-243390		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
UL File Number	E53587		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.90	g/cm <sup>3</sup>	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	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	30 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.8	MPa	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Compressive Strength	186	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149
Arc Resistance	> 180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.20 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		

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