

# IDI SMC 46-16-60

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: 46-16-50  
PRODUCT DESCRIPTION: FLAME RESISTANT & LOW SMOKE GENERATION  
This composite is certified as a low smoke toxicity material with a UL94 V-0 flame rating. It's physical characteristics have been certified to meet several US Municipal Transit Authority specifications.

General Information			
Features	Flame Retardant		
	Low Smoke Emission		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr)	0.0 to 0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495
Inclined-Plane Tracking (2.5 kV)	> 600	min	ASTM D2303
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Flame Spread - Radiant Panel Index	19.5		ASTM E162
Smoke Toxicity			
Aldehydes	25	ppm	
CO	600	ppm	
CO2	12250	ppm	
H2S	0	ppm	
HBr	0	ppm	
HCl	0	ppm	
HCN	1	ppm	
NH3	0	ppm	

NOx	3	ppm	
Vinyl Chloride	3	ppm	
Optical Density - Flaming @ 4 min	8.00		ASTM E662

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#### Recommended distributors for this material

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