

IDI SMC S52 (Glass Content 28%)

Thermoset, Unspecified
IDI Composites International

Message:

PRODUCT SERIES: S52 SERIES SMC
PRODUCT DESCRIPTION: DOCKET 90A - ASTM E162 / ASTM E662
These materials provide low smoke generation and flame spread in accordance with ASTM E162 and E662 standards.

General Information			
Filler / Reinforcement	Glass Fiber,28% Filler by Weight		
Features	Flame Retardant		
	Low Smoke Emission		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.11	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.18	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	60 to 65		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16100	MPa	ASTM D638
Tensile Strength	72.4	MPa	ASTM D638
Flexural Modulus	10200	MPa	ASTM D790
Flexural Strength	155	MPa	ASTM D790
Compressive Strength	160	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	960	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	17	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Spread Index	12.9		ASTM E662
Optical Density			ASTM E662
Flaming @ 1.5 min	0.700		
Flaming @ 4 min	6.90		
Non-Flaming @ 1.5 min	0.00		
Non-Flaming @ 4 min	1.00		

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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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