

IDI SMC S42 (Glass Content 30%)

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: S42 SERIES SMC

PRODUCT DESCRIPTION: LOW PRESSURE, LOW DENSITY, LOW SMOKE

These materials provide low smoke generation and flame spread in accordance with ASTM E162, E662 and E84 standards.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Low Density		
	Low Smoke Emission		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50 to 1.70	g/cm ³	ASTM D792
Molding Shrinkage	0.050 to 0.20	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	30 to 60		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11700	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Compressive Strength	131	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	1000	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 204	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Spread Index	25.0		ASTM E162
Optical Density			ASTM E662
Non-Flaming @ 1.5 min	0.00		
Non-Flaming @ 4 min	10.0		

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