

# IDI SMC S30 (Glass Content 25%)

Thermoset, Unspecified

IDI Composites International

## Message:

PRODUCT SERIES: S30 SERIES SMC

PRODUCT DESCRIPTION: LOW PROFILE AUTOMOTIVE GRADE

Low shrink composite materials. Well suited for applications requiring shrink <0.1%.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Low Shrinkage		
Uses	Automotive Applications		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.95	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20 to 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	15 to 60		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	186	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	J/m	ASTM D256
Unnotched Izod Impact	960	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	Unit	Test Method
Burning Rate	17	mm/min	ASTM D635

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