

IDI SMC S10 (Glass Content 20%)

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: S10 SERIES SMC

PRODUCT DESCRIPTION: GENERAL PURPOSE GRADE

General purpose composite materials with a wide range of applications. Suitable applications are typically structural in nature with no flammability requirements.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	General Purpose		
Uses	General Purpose		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.90	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20 to 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	50 to 60		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Flexural Modulus	13800	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
Unnotched Izod Impact	750	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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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

