

IDI SMC S20 (Glass Content 20%)

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: S20 SERIES SMC

PRODUCT DESCRIPTION: SANITARY GRADE

Composite materials intended for use in sanitary, cookware, appliance and indirect food contact applications.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Uses	Appliances		
	Cookware		
	Sanitary Products		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.95	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	30 to 60		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	65.5	MPa	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	640	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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