

IDI SMC S90 (Glass Content 22%)

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: S90 SERIES SMC

PRODUCT DESCRIPTION: CORROSION RESISTANT GRADE

These composites are typically unsaturated polyester or epoxy vinyl ester materials formulated to meet the strict performance requirements of pumps, pipe flanges & underground applications that are impacted by corrosive environments.

General Information			
Filler / Reinforcement	Glass Fiber,22% Filler by Weight		
Features	Good Corrosion Resistance		
Uses	Pump Parts		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.90	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0 to 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 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 Strength	62.1	MPa	ASTM D638
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	850	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	9.9	mm/min	ASTM D635

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