

PRODUCT SERIES:

S52 SERIES SMC

PRODUCT DESCRIPTION:

DOCKET 90A - ASTM E162 / ASTM E662

Properties	Glass Content 22%		Glass Content 28%	
	Imperial	SI	Imperial	SI
Impact Strength-Izod Unnotched Test Method: ASTM D-4812	12.7 ft.lb./in.	680 J/m	18.0 ft.lb./in.	967 J/m
Flexural Modulus Test Method: ASTM D-790	1.55 x 10 ⁶ psi	10,700 MPa	1.48 x 10 ⁶ psi	10,200 MPa
Flexural Strength Test Method: ASTM D-790	21,000 psi	145 MPa	22,500 psi	155 MPa
Tensile Strength Test Method: ASTM D-638	9,250 psi	64 MPa	10,500 psi	72 MPa
Tensile Modulus Test Method: ASTM D-638	2.223 x 10 ⁶	15,400 MPa	2.335 x 10 ⁶	16,100 MPa
Compressive Strength Test Method: ASTM D-695	23,200 psi	160 MPa	23,200 psi	160 MPa
Water Absorption (24 Hrs @ 23C) Test Method: ASTM D-570	0.170%	0.170%	0.180%	0.180%
Barcol Hardness Test Method: ASTM D-2583	55-60	55-60	60-65	60-65
Specific Gravity (+/- .03) Test Method: ASTM D-792	1.83	1.83	1.90	1.90
Shrinkage Test Method: ASTM D-955	0.090%	0.090%	0.110%	0.110%
Flame Spread Index Test Method: ASTM E662	12.86	12.86	12.86	12.86
Specific Optical Density @ 1.5 min Test Method: ASTM E662	Flaming - 0.7	Non-Flaming - 0	Flaming - 0.7	Non-Flaming - 0
Specific Optical Density @ 4 min Test Method: ASTM E662	Flaming - 6.9	Non-Flaming - 1	Flaming - 6.9	Non-Flaming - 1
Arc Resistance (Sec.) Test Method: ASTM D-495	180	180	180	180
Dielectric Strength (S.T., Perp, kV/Thickness) Test Method: ASTM D-149	0.440 kV/mil	17.3 kV/mm	0.440 kV/mil	17.3 kV/mm

The information on this sheet is a guide. The stated values reflect an average of several tests conducted on CI's goods. These values were obtained under ideal conditions and may not be replicated in any particular test, part, or application. Because the values achieved in actual parts depend considerably on part design, molding conditions, and testing methods, no guarantee is made or implied regarding values to be obtained in any specific test, part, or application. CI makes no warranty or representation as to the suitability of any of its goods for use in any application. CI relies on customer to conduct its own tests and judge for itself the suitability of CI's goods.

10/2013

www.idicomposites.com

North America
Noblesville, IN

Europe
Vineuil, France

United Kingdom
Oldbury, UK

Asia/Pacific
Shanghai, China

Caribbean & South America
Aguirre, Puerto Rico

Mexico
Mexico City, Mexico