

PRODUCT SERIES:

STC 2100 SERIES SMC

PRODUCT DESCRIPTION:

HIGH STRENGTH EPOXY VINYL ESTER COMPOSITES

Properties Units	STC-2147		STC-2154		STC-2158	
	Imperial	SI	Imperial	SI	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	26 ft.lb./in.	1,390 J/m	35 ft.lb./in.	1,870 J/m	30 ft.lb./in.	1,600 J/m
Flexural Strength Test Method: ASTM D-790	45,000 psi	310 MPa	50,000 psi	345 MPa	60,000 psi	414 MPa
Flexural Modulus Test Method: ASTM D-790	1,800 ksi	12 GPa	2,000 ksi	14 GPa	2,100 ksi	15 GPa
Tensile Strength Test Method: ASTM D-638	25,000 psi	172 MPa	30,000 psi	207 MPa	35,000 psi	241 MPa
Tensile Modulus Test Method: ASTM D-638	2,500 ksi	17 GPa	2,700 ksi	19 GPa	2,900 ksi	20 GPa
Water Absorption (24 Hrs @ 23C) Test Method: ASTM D-570	0.1 to 0.3%	0.1 to 0.3%	0.1 to 0.3%	0.1 to 0.3%	0.1 to 0.3%	0.1 to 0.3%
Specific Gravity (+/- .03) Test Method: ASTM D-792	1.6 to 1.8	1.6 to 1.8	1.6 to 1.8	1.6 to 1.8	1.6 to 1.8	1.6 to 1.8
Shrinkage Test Method: ASTM D-955	0.05 to 0.3%	0.05 to 0.3%	0.05 to 0.3%	0.05 to 0.3%	0.05 to 0.3%	0.05 to 0.3%
Barcol Hardness Test Method: ASTM D-2583	30 to 60	30 to 60	30 to 60	30 to 60	30 to 60	30 to 60

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.

11/2013

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