PRODUCT SERIES: STC 3100 SERIES BMC
PRODUCT DESCRIPTION: HIGH STRENGTH CARBON FIBER REINFORCED EPOXY VINYL ESTER COMPOSITES

Properties / Units	STC-3125		STC-3142		STC-3142A	
	Imperial	SI	Imperial	SI	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	10 ft.lb./in.	534 J/m	12 ft.lb./in.	641 J/m	14 ft.lb./in.	747 J/m
Flexural Strength Test Method: ASTM D-790	25,000 psi	172 MPa	26,000 psi	179 MPa	30,000 psi	207 MPa
Flexural Modulus Test Method: ASTM D-790	3,000 ksi	20 GPa	4,000 ksi	28 GPa	4,300 ksi	30 GPa
Tensile Strength Test Method: ASTM D-638	8,000 psi	55 MPa	10,000 psi	69 MPa	12,000 psi	83 MPa
Tensile Modulus Test Method: ASTM D-638	3,500 ksi	24 GPa	5,700 ksi	39 GPa	6,700 ksi	46 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	1.3 to 1.5	1.3 to 1.5	1.3 to 1.5	1.3 to 1.5	1.3 to 1.5	1.3 to 1.5
Shrinkage Test Method: ASTM D-955	0.1 to 0.1%	0.1 to 0.1%	0.1 to 0.1%	0.1 to 0.1%	0.1 to 0.1%	0.1 to 0.1%
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.

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