

**PRODUCT SERIES:**

**STC 2300 SERIES SMC**

**PRODUCT DESCRIPTION:**

**HIGH STRENGTH POLYESTER URETHANE HYBRID COMPOSITES**

Properties Units	STC-2350		STC-2353		STC-2353 Woven	
	Imperial	SI	Imperial	SI	Imperial	SI
Impact Strength-Izod Notched Test Method: ASTM D-256	40 ft.lb./in.	2,140 J/m	30 ft.lb./in.	1,600 J/m	60 ft.lb./in.	3,200 J/m
Flexural Strength Test Method: ASTM D-790	40,000 psi	276 MPa	50,000 psi	345 MPa	60,000 psi	414 MPa
Flexural Modulus Test Method: ASTM D-790	2,000 ksi	14 GPa	2,000 ksi	14 GPa	2,200 ksi	15 GPa
Tensile Strength Test Method: ASTM D-638	30,000 psi	207 MPa	35,000 psi	241 MPa	35,000 psi	241 MPa
Tensile Modulus Test Method: ASTM D-638	--	--	3,600 ksi	25 GPa	3,800 ksi	26 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	1.7 to 1.9	1.7 to 1.9	1.7 to 1.9	1.7 to 1.9	1.7 to 1.9	1.7 to 1.9
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	40 to 60	40 to 60	40 to 60	40 to 60	40 to 60	40 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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