

Structural Composites, Inc.

Sigma Labs

sigmalabs@structuralcomposites.com

360 East Drive,
Melbourne, FL 32904
(321) 951 9464

Since 1987 Structural Composites' Sigma Labs has provided physical and mechanical testing of composite materials in accordance with industry-standard test methods, including ASTM, ISO, ABS, DNV, USCG and RTP.

Sigma Labs also works closely with customers on custom test methods. Sigma Labs is ISO 9001:2015 registered, serving a wide range of industries. A sampling of Sigma Labs test capabilities is listed below.

For tests not listed, please call or e-mail Sigma Labs.

Test ID	Test Description
ASTM B 117	Salt Spray Conditioning
ASTM C 1147	Short Term Tensile Strength
ASTM C 271	Density of Sandwich Core Materials
ASTM C 273	Core Shear Strength / Modulus
ASTM C 297	Flatwise Tensile Strength
ASTM C 365	Flatwise Compressive Strength
ASTM C 393	Core Shear Properties by Flexure - 3-Point, 4-Point
ASTM D 1062	Cleavage Peel Strength
ASTM D 1621	Core Compressive Strength / Modulus
ASTM D 1622	Density of Plastics
ASTM D 1623	Flatwise Tensile Strength
ASTM D 1761	Fastener Pull-Out Strength
ASTM D 1781	Climbing Drum Peel
ASTM D 1876	T-Peel Test
ASTM D 2247	Water resistance of coatings in 100% Humidity
ASTM D 2344	Short-Beam Shear Strength
ASTM D 2471	Gel Time and Peak Exothermic Temperature
ASTM D 256	Impact Resistance
ASTM D 2566	Linear Shrinkage
ASTM D 2583	Barcol Hardness
ASTM D 2584	Resin Content
ASTM D 2584	Resin Content w/ Filler
ASTM D 2734	Void Content
ASTM D 3039	Tensile Strength / Modulus
ASTM D 3039	Tensile Strength / Modulus / Poisson's Ratio
ASTM D 3043	Structural Panels in Flexure
ASTM D 3163	Plastic to Plastic Adhesive Lap Shear
ASTM D 3165	Panel to Panel Adhesive Single Lap Shear
ASTM D 3167	Floating Roller Peel Drum
ASTM D 3171	Resin Content by Resin Digestion
ASTM D 3528	Double Adhesive Lap Shear Strength

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Test ID	Test Description
ASTM D 3846	In-Plane Shear Strength (Notched)
ASTM D 4255	In-Plane Shear Strength / Modulus (Rail Shear)
ASTM D 5229	Moisture Absorption
ASTM D 5379	Shear Properties (V-Notch)
ASTM D 5420	Gardner Drop Impact Test
ASTM D 5467	Skin Compression by Beam Flexure
ASTM D 5628	Drop Impact Test
ASTM D 570	Water Absorption
ASTM D 5766	Tensile Strength, Open Hole
ASTM D 5868	Strength of Adhesions in Shear
ASTM D 6272	4-Point Flexure
ASTM D 638	Tensile Strength / Modulus - with Elongation
ASTM D 695	Compressive Strength / Modulus
ASTM D 7249	Facing properties by Long Beam Flexure - 3-Point, 4-Point
ASTM D 7250	Sandwich Beam Flex - 3-Point, 4-Point
ASTM D 790	Evaluation of Gelcoat in Tension/Compression
ASTM D 790	Flexural Strength / Modulus - 3-Point, 4-Point
ASTM D 7905	Mode II Interlaminar Fracture Toughness of Uni-Fiber Polymer Matrix Composites
ASTM D 792	Density and Specific Gravity
ASTM D 953	Bearing Strength