



# OCV™ Technical Fabrics

## PRODUCT INFORMATION

## Triaxial Fabrics (0°/±45° OR 90°/±45°)

### PRODUCT DESCRIPTION

OCV™ Technical Fabrics Triaxial Fabrics are a stitch-bonded, non-crimp, composite reinforcement combining either a warp (0°) or weft (90°) ply with double bias (±45°) plies into a single multiaxial fabric. By providing reinforcement in three directions, these fabrics can reduce labor costs through faster fabrication. The versatile fabric, made from high-quality fibers, is available in a variety of widths and weights to meet your particular requirements. The input fibers are designed to give controlled wet-out and excellent laminate properties. Each fabric can be combined with a glass mat or veil for enhanced performance, surface finish or handling.

### PRODUCT APPLICATION

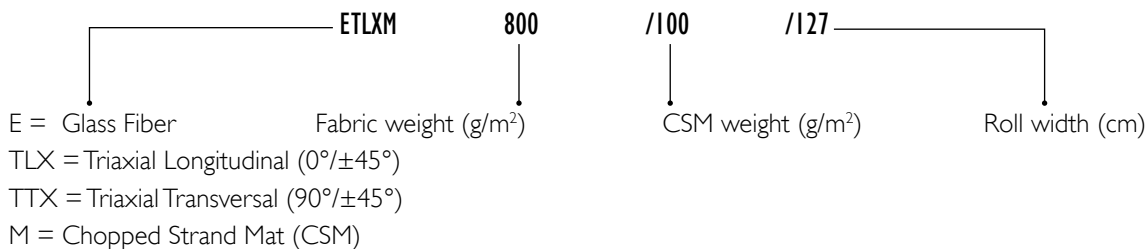
OCV™ Triaxial Fabrics offer improved stiffness without added weight or laminate thickness for high-performance structural laminates. These fabrics provide multidirectional reinforcement, combining the strength of unidirectional with the twist resistance of double bias. Applications requiring this combination of axial and off-axis reinforcement include wind blades, boat hulls, storage tanks, trailer panels, and pultruded profiles such as bridge decks. Since the concentration of reinforcement in each direction can be engineered, Triaxial Fabrics offer improved stiffness without added weight or laminate thickness for high performance structural laminates. Reduced fabric print-through results in enhanced aesthetics on finished products while offering material and labor savings.

### FEATURES

### PRODUCT BENEFITS

Crimp-free construction	Improved fiber alignment and mechanical properties
Optimized directional fiber content	Reduced resin usage and part weight
Three-layer construction reduces the number of steps in lay-up	Reduced fabrication costs
Reduce print-through	Enhanced aesthetics with material and labor savings
±45° fiber content offers resistance to twisting	Excellent balance of axial strength and shear resistance
Available in a variety of widths and weights	Offers solutions for wide range of applications

### PRODUCT NOMENCLATURE





## PHYSICAL PROPERTIES / AVAILABLE PRODUCTS

FAMILY	PRODUCT DESCRIPTION	PRODUCT CERTIFICATE Lloyd's approval	TOTAL WEIGHT (g/m <sup>2</sup> )	WEIGHT UNIFORMITY (g/m <sup>2</sup> )				STANDARD WIDTH (mm)	
				Yarn Roving			Knit yarn		CSM
				0°	+45°	90°			
<b>Triaxial 0°/±45°</b>	ETLX 440		433	283	75	75	10	1250/2500	
	ETLX 583		583	283	150	150	10	1250/2500	
	ETLX 751		759	283	234	234	10	1250/2500	
	ETLX 800	X	813	396	205	205	10	1250/2500	
	ETLX 600		597	147	221	221	10	1250/2500	
	ETLX 1169	X	1169	567	301	301	10	1250/2500	
	ETLX 1800		1837	912	458	458	10	1250/2500	
	ETLX 2303	X	2303	1701	301	301	10	1250/2500	
<b>Triaxial - 45°/90°/ + 45°</b>	ETTX 1169	X	1169		301	567	301	10	1250/2500
	ETTX 800	X	808	1.4	200	400	200	10	1250/2500
	ETTXM 800/100	X	908	1.4	200	400	200	10	100

Others weights, types and combinations are available under request.

## SAMPLE MECHANICAL PROPERTIES

Sample Mechanical Properties of Laminate based on ETLX 800 (55% glass content by weight).

	TENSILE (ISO 527-4)		COMPRESSION (ISO 8515)		FLEXURAL (ISO 14.125)	
	Warp mean	Weft mean	Warp mean	Weft mean	Warp mean	Weft mean
Strength	92 MPa	471 MPa	130 MPa	260 MPa	198 MPa	756 MPa
Modulus	12 GPa	22 GPa	9 GPa	17 GPa	9 GPa	18 GPa



## OCV™ Technical Fabrics

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