



OCV™ Technical Fabrics

PRODUCT INFORMATION

Quadriaxial Fabrics (0°/90°/±45°)

PRODUCT DESCRIPTION

OCV™ Technical Fabrics Quadriaxial Fabrics are a stitch-bonded, non-crimp, composite reinforcement combining warp (0°), weft (90°), and double bias (±45°) plies into a single multiaxial fabric. By providing reinforcement in multiple directions, these highly engineered fabrics can reduce labor costs through faster fabrication. The concentration of fiber oriented in each direction can be varied for optimal laminate performance. 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

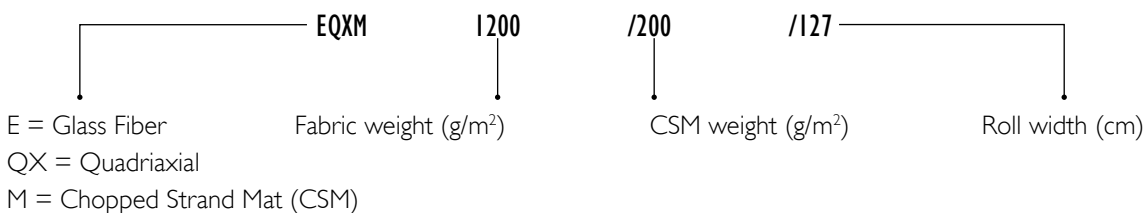
OCV™ Quadriaxial Fabrics combine the strength of biaxial with the twist resistance of double bias fabrics. These multiaxial fabrics are ideal for applications requiring quasi-isotropic performance. Applications include heavy structural laminates such as boat hulls and decks, trailer panels, shipping containers, and pultruded profiles. Since the concentration of reinforcement in each direction can be engineered, Quadriaxial 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
Four-layer construction reduces the number of steps in lay-up	Reduced fabrication costs
Reduce print-through	Enhanced aesthetics with material and labor savings
Multiaxial reinforcement	Quasi-isotropic properties
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 ²)	WEIGHT UNIFORMITY (g/m ²)						STANDARD WIDTH (mm)
				Yarn Roving				Knit yarn	CSM	
				0°	+45°	90°	-45°			
Quadri-axial	EQX 610		612	142	150	160	150	10	-	1250/2500
	EQX 800	X	808	198	200	200	200	10	-	1250/2500
	EQXM 800/100	X	908	198	200	200	200	10	100	1250/2500
	EQX 868		876	283	150	283	150	10	-	1250/2500
	EQX 1150	X	1145	283	284	284	284	10	-	1250/2500
	EQX 1168		1178	283	283	301	301	10	-	1250/2500
	EQX 1200	X	1193	283	300	300	300	10	-	1250/2500
	EQXM 1200/200	X	1393	283	300	300	300	10	200	1250/2500
	EQX 1652	X	1662	425	401	425	401	10	-	1250/2500
	EQX 2336		2346	567	601	567	601	10	-	1250/2500

Others weights, types and combinations are available under request.

SAMPLE MECHANICAL PROPERTIES

Sample Mechanical Properties of Laminate based on EQX 1200 (54% 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	331 MPa	314 MPa	220 MPa	200 MPa	473 MPa	433 MPa
Modulus	18 GPa	17 GPa	14 GPa	14 GPa	13 GPa	11 GPa



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