



OCV™ Technical Fabrics

PRODUCT INFORMATION

Woven Roving Fabrics (0°/90°)

PRODUCT DESCRIPTION

OCV™ Technical Fabrics Woven Roving Fabrics are composed of direct rovings woven into a fabric or tape. The input rovings are designed to give controlled wet-out and excellent laminate properties. The construction gives bi-directional (0°/90°) reinforcement and the strength of continuous filaments. Woven Roving Fabrics are designed to be compatible with multiple resin systems, and can be customized to meet specific product requirements.

PRODUCT APPLICATION

OCV™ Woven Roving Fabrics provide high-quality, global products designed to meet your performance and cost requirements. Woven Roving Fabrics provide the most economical solution for raising glass content of laminates and increasing laminate stiffness and impact resistance without adding thickness, weight, or other non-reinforcing materials. The fabric delivers cost-effective solutions to your competitive reinforcement challenges, particularly large parts such as boat hulls and high-durability laminates such as underground storage vessels.

FEATURES

PRODUCT BENEFITS

Economical, multi-use fabric	Lower finished part cost
Consistent glass loading	Excellent laminate properties and cost-effective reinforcement
Excellent dimensional stability	Ease of handling and drape ability
Regular porosity	Rapid wet-out and fast application
Assorted weave patterns and preferential fiber loading	Design flexibility and engineered strain values
Crimp engineered for end-use	High impact response

PRODUCT NOMENCLATURE





PHYSICAL PROPERTIES / AVAILABLE PRODUCTS

FAMILY	PRODUCT DESCRIPTION	PRODUCT CERTIFICATE Lloyd's approval	TOTAL WEIGHT (g/m ²)	WEIGHT UNIFORMITY (g/m ²)				PATTERN	RATIO % warp/weft	STANDARD WIDTH (mm)
				Yarn Roving						
				0°	+45°	90°	-45°			
Woven Roving	WR 300	X	300	150	-	150	-	Plain	50/50	1250
	WR 500	X	500	250	-	250	-	Plain	50/50	1250
	WR 580 1/3	X	580	290	-	290	-	1/3 Twill	50/50	1250
	WR 600	X	600	300	-	300	-	Plain	50/50	1250
	WR 800	X	800	400	-	400	-	Plain	50/50	1250
	WR 1000 2/2	X	1000	500	-	500	-	2/2 Twill	50/50	1250
	WR 1500 2/2	X	1440	720	-	720	-	2/2 Twill	50/50	1250
Unid. Warp 0°	WR 482/31	X	513	482	-	31	-	Plain	94/6	150 to 1300
	WR 567/36	X	603	567	-	36	-	Plain	94/6	150 to 1300
	WR 724/81	X	804	724	-	81	-	Plain	90/10	150 to 1300
	WR 1152/42	X	1194	1152	-	42	-	Plain	96/4	150 to 1300
Unid. Weft 90°	WR 25/251	X	276	25	-	251	-	Plain	9/91	150 to 1300
	WR 22/422	X	444	22	-	422	-	Plain	5/95	150 to 1300

Others weights, types and combinations are available under request.

SAMPLE MECHANICAL PROPERTIES

Sample Mechanical Properties of Laminate based on WR 600 (57% 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	384 MPa	502 MPa	201 MPa	203 MPa	481 MPa	558 MPa
Modulus	20.2 GPa	22.3 GPa	16.9 GPa	17.4 GPa	17.1 GPa	17.8 GPa



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