



Composites
Reinforcements

**GLASS
REINFORCEMENTS
SELECTOR GUIDE**

CHOMARAT

GLASS REINFORCEMENTS

WHICH PRODUCT FOR WHICH PROCESS

	HLU	RTM	RTM LIGHT	SMC	PULTRUSION	FILAMENT WINDING	INFUSION
G-WEAVE							
G-TAPE							
G-PLY™							
ROVIMAT™							
ARAMAT™							
VOLUMAT™							
DIAGONAP™							
ROVIFLOW™							
G-FLOW™							
ROVICORE™							

→ WOVEN ROVING

G-WEAVE is a bi-directional reinforcement.

There are three types of weave:
Plain or taffeta (P) | Twill (T) | Satin (SA).

Twill and satin weaves produce flatter fabrics, a better surface aspect and improved deformability.
Possibility to produce from 10 to 325 cm width.

→ ADHESIVE SOLUTIONS

Two solutions to help the lay-up of reinforcement in closed mould processes.

1- FX : facilitator of reinforcement positioning

FX is an adhesive solution which enables the positioning of CHOMARAT glass reinforcement products.

FX is a key function to ease the production of large parts with complex geometries in closed mould processes. It is well suited for markets like marine and transportation.

Advantages

- FX is a facilitator of reinforcement positioning and ease lay-up of vertical sections.
- The FX solution is available on CHOMARAT's ranges of fabrics, multiaxials and core materials.

2- EASYTAPE² 45L 25ADH is a glass tape coated on both sides.

Our tapes are to be used in closed molding process.

They maintain reinforcements into the mold, for parts that are large or with complex or vertical geometries.

Advantages

- Possibility of placing the adhesive ribbon only in specific zones.

- No solvent emissions when laying.
- Compatible with the main resins.

→ THERMO-REACTIVE SCRIM

G-BOND is a range of thermo-reactive open glass scrim, used for the stabilization of grooved PET or PVC foam or balsa.

Advantages

- The construction of **G-BOND** provides a flat and thin material. In addition, due to its glass content, **G-BOND** brings dimensional stability to the core material.

→ TAPES

G-TAPE is a woven tape with selvages. It may be balanced or unidirectional, fixed or not, made using glass, polyester, aramid or other fibers.

Advantages

- Width can be adapted to your need.
- Easy to manipulate, no edge fraying.
- Specially adapted to UD warp.
- Possibility to add fixation for a better handling and higher mechanical resistance.
- Easy to mix different fibers (carbon, glass, aramid, flax or basalt).

→ MULTIAXIAL

G-PLY™ is a multiaxial made up of unidirectional layers (0°, 90°, +/-45°) that are mechanically sewn together.

This is a continuous fiber, non-crimp fabric. This construction allows increased mechanical performance compared to woven fabrics.

→ MULTI-LAYERS

ROVIMAT™ is a fabric-mat complex, made from woven roving and mat, mechanically bonded by stitching, with no chemical binder.

VOLUMAT™ is a woven roving combined with a mat, mechanically bonded by the needleloom process, without chemical binding.

- Adds volume to reinforcement to obtain thicker parts.
- Dedicated to parts with sharp angles, as high volume fibers of Volumat allows optimum filling of critical areas.
- Woven roving brings transverse mechanical strength to finished products.
- Does not fray during processing which gives a better surface aspect than most of other reinforcements like CFM.

VOLUMAT™ ASPECT, the addition of a polyester veil:

- Improve the surface appearance of profiles.
- Create a barrier against UV or chemical attack.
- Saves preparation time (fabric+veil in one step).

→ FLOW MEDIA REINFORCEMENTS

ROVIFLOW™ is a sewn complex made up of a tricot polyester draining net or a continuous glass filament mat (CFM), combined with a reinforcement and/or a mat.

Advantages

- A reduction in draping time due to a decrease in the number of layers to laminate.
- Waste reduction (No peel-ply, no external flow medium).
- A flow speed higher than a solution with an external flow medium.

G-FLOW™ is a 100% glass, structural flow media for infusion and RTM. To be used without adding an external or internal flow media.

Advantages

- High mechanical performance.
- Improved preparation time.
- Quicker infusion time.
- Less waste.
- Better cycle life performances.
- Cost saving.

→ ROVICORE™

ROVICORE™ is a reinforcement made with a synthetic non-woven core and chopped glass fibers mechanically stitched together. It can be used for all Closed Mold process needs.

Advantages

- Easy to form in angles and more complex shapes. Time and Labor savings.
- Adaptable Thickness.
- Core resilience and Compressibility. To adapt to the different thicknesses of parts.
- Good surface aspect.
- High Permeability of the Synthetic Core.
- Lack of Chemical Binder for a good impregnation of the reinforcement.

	ROVICORE™ S-ASPECT	ROVICORE FM™	ROVICORE™ SINGLE SIDE	COREGLASS™	ROVICORE PLY™	ROVICORE FR™
CONFORMABILITY						
PERMEABILITY						
ASPECT						
SANDWICH CONSTRUCTION						
CHEMICAL RESISTANCE						
IMPROVED STIFFNESS WITH HIGHER GLASS CONTENT						
STRUCTURAL PART						
FIRE RESISTANCE						

SELECTOR GUIDE

→ WOVEN ROVING

DESIGNATION	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	Width (cm)
G-WEAVE 280P	285	Plain	5,2	300	4,3	300	130
G-WEAVE 320P	320	Plain	2,6	600	2,7	600	125
G-WEAVE 505P	505	Plain	2,2	1200	2	1200	125
G-WEAVE 580T	580	Twill	2,2	1200	2,5	1200	130
G-WEAVE 600P/1	600	Plain	2,5	1200	2,5	1200	125
G-WEAVE 900P	900	Plain	2	2400	1,8	1200 x 2	180 to 325

→ ADHESIVE TAPES

DESIGNATION	Total Weight (gsm)	Pattern	CONSTRUCTION				COATING			
			Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	Weight (gsm)	Type	Width (cm)	Roll length (lm)
EASYTAPE² 45L 25ADH	72	Leno	3,7	2 x 34	3	68	26	ACR Double face	2/2,5 3/5/6	100

→ THERMO-REACTIVE SCRIM

DESIGNATION	Total Weight (gsm)	Pattern	CONSTRUCTION				COATING			
			Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	Weight (gsm)	Type	Width (cm)	Roll length (lm)
G-BOND 52P 25THCM	77	Plain	7,7	34	3,8	68	25	CoPET	122	1000
G-BOND 52P 40THCM	92	Plain	7,7	34	3,8	68	40	CoPET	122	1000
G-BOND 52P 25THCM3	77	Plain	7,7	34	3,8	68	25	CoPET	122	1000
G-BOND 60P 25THCM3	85	Plain	5,0	68	3,7	68	25	CoPET	122	1000
G-BOND 80P 25THCM3	105	Plain	5,0	68	3,1	136	25	CoPET	122	1000

→ TAPES

DESIGNATION	Type	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	Width (mm)	Roll length (lm)
G-TAPE 156P	Glass	156	Plain	6,3	136 sillionne	5,1	68 sillionne	50/100	100
G-TAPE 280P	Glass	280	Plain	5,1	320	4,2	136 sillionne	50/80/100/150/200	100
G-TAPE U395P	Glass	420	Plain	3,3	1200	1,8	68 sillionne	100/240	100
G-TAPE U495P	Glass	550	Plain	4,15	1200	2	136 sillionne	120/220	250
G-TAPE U600P	Glass	681	Plain	2,6	2400	2,1	136 sillionne	100/200/350	100
G-TAPE U990P	Glass	1000	Plain	8,2	2400	1,8	PES 28 tex	80/100	100

→ STITCHED TAPES

DESIGNATION	Type	Total Weight (gsm)	Pattern	0° / Warp 1		0° / Warp 2		Weft 1 (tex)	Weft 2 (tex)	Stitching (type)	Width (mm)	Roll length (lm)
				(ends/cm)	(tex)	(ends/cm)	(type)					
G-TAPE ST BT120/360F	Glass	505	Special	4	600	4	fixation	1200	1200	synthetic	120	200

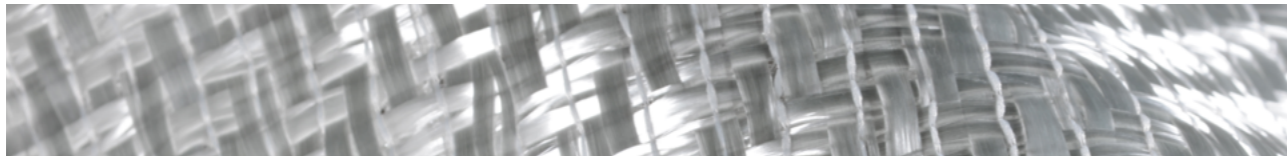
→ MULTIAXIAL

DESIGNATION	Total Weight (gsm)	0° Weight (gsm)	90° Weight (gsm)	+45° Weight (gsm)	-45° Weight (gsm)	CSM (gsm)	0° (tex)	90° (tex)	± 45° (tex)	Gauge	Roll length (lm)	Width (cm)
G-PLY™ BX468S T3	482	2	2	234	234	-	68	68	300	10	100	127
G-PLY™ BX600S T3	616	2	-	301	301	-	68	-	600	10	100	127
G-PLY™ BX600S/M225 T3	839	2	-	301	301	225	68	-	600	10	75	127
G-PLY™ BX800S C3	812	2	-	401	401	-	68	-	1200	10	75	127
G-PLY™ BX800S/M200 T5,5	1096	2	82	401	401	200	68	300	1200	10	75	127
G-PLY™ BT472/M300 T5	782	236	236	-	-	300	1200	600	-	10	75	127
G-PLY™ BT583/M450 T6	1061	318	283	-	-	450	1200	600	-	10	75	127
G-PLY™ BT830 T4	844	432	402	-	-	-	1200	1200	-	10	75	127
G-PLY™ TL636 T4	646	236	-	200	200	-	1200	-	600	10	100	127
G-PLY™ TL845 T3	854	300	-	272	272	-	1200	-	600	10	75	127
G-PLY™ TL1236 T3	1246	432	-	402	402	-	1200	-	1200	10	50	127
G-PLY™ Q872 T3,5	893	236	213	217	217	-	1200	600	300	10	75	127
G-PLY™ Q972 T4	982	236	236	250	250	-	1200	600	1200	10	50	127
G-PLY™ Q1201 T4	1211	318	283	300	300	-	1200	600	600	10	50	127
G-PLY™ Q1676 T4	1686	472	402	401	401	-	1200	600	1200	10	22	127

Our multiaxial range for marine industry received DNV GL certification

→ ADHESIVE MULTIAXIAL

DESIGNATION	WEIGHT (gsm)				COATING		0° (tex)	90° (tex)	± 45° (tex)	Gauge	Roll length (lm)	Width (cm)	
	Total	0°	90°	+45°	-45°	type							gsm
G-PLY™ FX BX800S C3	822	2	-	401	401	hot melt	10	68	-	1200	10	90	127
G-PLY™ FX TL636 T4	656	236	-	200	200	hot melt	10	1200	-	600	10	100	127
G-PLY™ FX TL845 T3	854	300	-	272	272	hot melt	10	1200	-	600	10	85	127
G-PLY™ FX TL1236 T3	1256	432	-	402	402	hot melt	10	1200	-	1200	10	60	127
G-PLY™ FX Q872 T3,5/1	904	236	213	217	217	hot melt	10	1200	600	300	10	85	127
G-PLY™ FX Q972 T4	992	236	236	250	250	hot melt	10	1200	600	1200	10	75	127
G-PLY™ FX Q1201 T4	1221	318	283	300	300	hot melt	10	1200	600	600	10	65	127



→ MULTI-LAYERS

DESIGNATION	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	CSM (gsm)	Width (cm)	Roll length (lm)
ROVIMAT™ 320P/300	628	Plain	2,6	600	2,7	600	300	125	50
ROVIMAT™ 600P2/450	1068	Basket	2,2	1200	1,4 x 2	1200	450	125	50
ROVIMAT™ 530T/R/450	1006	Twill 2/2	2,2	1200	1,1 x 2	1200	450	125	50
ROVIMAT™ 790P2/300L	1098	Basket	1,6 x 2	1200	1,6 x 2	1200	300	125	50
ROVIMAT™ 1500T3/300L	1808	Twill 3/1	2,6	2400	1,2 x 3	2400	300	125	50

DESIGNATION	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	CSM (gsm)	Width (cm)	Roll length (lm)
ARAMAT™ 372K/200	578	Twill	2 glass 2 aramid	600 316	2 glass 2 aramid	600 316	200	125	50

DESIGNATION	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	CSM (gsm)	Nonwoven (gsm)	Width (cm)	Roll length (lm)
VOLUMAT™ 240P/200	440	Plain	2,6	600	2,5	320	200	-	125/120 cut edge	100
VOLUMAT™ 320P/300	620	Plain	2,6	600	2,7	600	300	-	125/120 cut edge	100
VOLUMAT™ 600P2/450	1060	Basket	2,2	1200	1,4 x 2	1200	450	-	125/120 cut edge	50
VOLUMAT™ 240P/200 ASPECT	490	Plain	2,6	600	2,5	320	200	50	125/120 cut edge	100
VOLUMAT™ 320P/180 P4	500	Plain	2,6	600	2,7	600	180	-	120 cut edge	100

DESIGNATION	Total Weight (gsm)	0° Weight (gsm)	+45° Weight (gsm)	-45° Weight (gsm)	90° Weight (gsm)	Glass veil (gsm)	Width* (cm)	Roll length (lm)
DIAGONAP™ DT 20.40.1.01	858	410	205	205	-	-	120 sides trimmed	50
DIAGONAP™ DX 2006/1	468	20	205	205	-	30	120 sides trimmed	50
DIAGONAP™ DX 4001	828	20	400	400	-	-	120 sides trimmed	50
DIAGONAP™ DXVC 3135	729	20	312	312	-	-	120 sides trimmed	50

* 120 cm sub-multiple width is also possible

→ FLOW MEDIA REINFORCEMENTS

DESIGNATION	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	0° Weight (gsm)	≥ 60° Weight (gsm)	CSM (cm)	Width (cm)	Roll length (lm)
G-FLOW™ 500L	500	Leno	4	600	4	600	-	-	-	125	100
G-FLOW™ 980L	982	Leno	4	1200	4	1200	-	-	-	125	100

DESIGNATION	Total Weight (gsm)	Pattern	Warp (ends/cm)	Warp (tex)	Weft (picks/cm)	Weft (tex)	CSM (gsm)	Flow media (type)/(gsm)	Width (cm)	Roll length (lm)
ROVIFLOW™ 1020T/1/NET1/300	1438	Twill 2/2	1,6 x 2	1200	1,3 x 2	2400	300	PET 110	125	25
ROVIFLOW™ 530P/NET5/100	696	Plain	2,2	1200	2,2	1200	100	PET 60	125	75



→ ROVICORE™

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Width* (cm)	Roll length (lm)
ROVICORE™ R 300/D3/300	790	2 x 300	180	125	60
ROVICORE™ R 300/B5/300	860	2 x 300	250	125	50
ROVICORE™ R 450/D3/450	1090	2 x 450	180	125	50
ROVICORE™ R 450/B5/450	1160	2 x 450	250	125	45
ROVICORE™ R 600/D3/600	1390	2 x 600	180	125	45
ROVICORE™ R 600/B5/600	1460	2 x 600	250	125	40
ROVICORE™ 750/D3/750	1690	2 x 750	180	125	40
ROVICORE™ 750/B5/750	1760	2 x 750	250	125	40
ROVICORE™ 900/D3/900	1990	2 x 900	180	125	36
ROVICORE™ 900/B5/900	2060	2 x 900	250	125	35

ROVICORE™ SINGLE SIDE

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Width* (cm)	Roll length (lm)
ROVICORE™ D3/300	490	300	180	125	60
ROVICORE™ D3/450	640	450	180	125	60
ROVICORE™ D3/600	790	600	180	125	50
ROVICORE™ 750/D3	940	750	180	125	55
ROVICORE™ 900/D3	1090	900	180	125	50

ROVICORE™ FIRE RESISTANT

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Width* (cm)	Roll length (lm)
ROVICORE™ FR 450/D3/450	1090	2 x 450	180	125	50
ROVICORE™ FR 600/D3/600	1388	2 x 600	180	125	45

COREGLASS™

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Width* (cm)	Roll length (lm)
COREGLASS™ 750/CG3/750	1870	2 x 750	360	125	40
COREGLASS™ 750/CG5/750	2010	2 x 750	500	125	40
COREGLASS™ 900/CG3/900	2170	2 x 900	360	125	35
COREGLASS™ 900/CG5/900	2310	2 x 900	500	125	35

ROVICORE™ S.ASPECT

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Polyester veil (gsm)	Width* (cm)	Roll length (lm)
ROVICORE™ D3/600/S.ASPECT	848	600	180	60	125	50
ROVICORE™ 600/D3/600/S.ASPECT	1450	2 x 600	180	60	125	40

ROVICORE™ FM

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Width inch/(cm)	Roll length (lm)
ROVICORE™ FM 300/D3/300/72V	780	2 x 300	180	60"/(152)	60
ROVICORE™ FM 450/D3/450/72V	1080	2 x 450	180	60"/(152)	50
ROVICORE™ FM 600/D3/600/72V	1380	2 x 600	180	60"/(152)	45

ROVICORE™ FM SINGLE SIDE

DESIGNATION	Total Weight (gsm)	CSM (gsm)	Core (gsm)	Width inch/(cm)	Roll length (lm)
ROVICORE™ FM D3/300/72V	552	300	180	60"/(152)	65
ROVICORE™ FM D3/450/72V	702	450	180	60"/(152)	60
ROVICORE™ FM D3/600/72V	852	600	180	60"/(152)	55

Other glass weights and core options available upon request / *250 cm sub-multiple width is also possible



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