



 **FIBERTECH** 

GROUP  
STILE ITALIANO

COMPOSITES SOLUTIONS

# FABRICS

## CARBON FIBER FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
CC 90	90	Plain	1K – 68 tex	1K – 68 tex	6,6	6,6	0,10
CC 160	160	Plain	3K – 200 tex	3K – 200 tex	4	4	0,15
CC 200	200	Plain	3K – 200 tex	3K – 200 tex	5	5	0,20
CC 201	200	2/2 Twill	3K – 200 tex	3K – 200 tex	5	5	0,20
CC 240	240	Plain	3K – 200 tex	3K – 200 tex	6	6	0,25
CC 241	240	2/2 Twill	3K – 200 tex	3K – 200 tex	6	6	0,25
CC 282	280	4/4 twill	3K – 200 tex	3K – 200 tex	7	7	0,28
CC 381	376	2/2 Twill	12K – 800 tex	12K – 800 tex	2,35	2,35	0,39
CC 400	400	Plain	12K – 800 tex	12K – 800 tex	2,5	2,5	0,39
CC 401	400	2/2Twill	12K – 800 tex	12K – 800 tex	2,5	2,5	0,39
CC 431	429	2/2 twill	12K – 800 tex	12K – 800 tex	2,7	2,7	0,40
CC 601	600	2/2 twill	12K – 800 tex	12K – 800 tex	3,7	3,7	0,60
CC 630	630	2/2 twill	12K – 800 tex	12K – 800 tex	3,9	3,9	0,69
CC 801	800	2/2 twill	24K – 1600 tex	24K – 1600 tex	2,5	2,5	0,80
CC 801 K	800	2/2 twill	50K – 3750 tex	50K – 3750 tex	1,07	1,07	0,80
CC 1201	1184	2/2 twill	24K – 1600 tex	24K – 1600 tex	3,7	3,7	1,20
CC 1201 K	1200	2/2 twill	50K – 3750 tex	50K – 3750 tex	1,87	1,87	1,20

## GLASS FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
VV 50	48	Plain	EC5 11 tex	EC5 11 tex	23,5	18,5	0,05
VV 100	100	Plain	EC7 22 tex	EC7 22 tex	24	22,8	0,09
VV 161	165	2/2 twill	EC9 68 tex	EC9 68 tex	11,8	12	0,12
VV 191	190	4H Satin	EC9 68 tex	EC9 34 tex	22	11	0,13
VV 194	194	2/2 Twill	EC9 68 tex	EC9 68 tex	14	14	0,25
VV 7628	203	Plain	EC9 68 tex	EC9 68 tex	17,4	11,8	0,16
VV 291	290	2/2 Twill	3x EC9 68 tex	EC11 204 tex	7	7	0,21
VV 300	300	Plain	Roving 600 tex	Roving 600 tex	2,5	2,5	0,3
VV 314	305	4H Satin	EC9 139 tex	EC9 34 tex	19,5	11	0,24
VV 434	430	UD Plain	EC9 204 tex	EC9 68 tex	6,1	6,8	0,37
VV 601	600	2/2 Twill	EC6CR17 1200 tex	EC6CR17 1200 tex	16	14	0,50
VV 774	770	4H Satin	EC 1200 tex	EC 1200 tex	3,2	3,2	0,77

## ARAMID FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
AA 170	167	Plain	1670 dtex	1670 dtex	5	5	0,17
AA 290	290	Plain	3340 dtex	3340 dtex	4,6	4,5	0,29

# FABRICS

## MULTIAXIAL FABRICS

Style	Weight (gr/smq)	Weaving Construction				Thickness (mm)
		0°	+ 45°	- 45°	90°	
CCX 300 B	300		24K – 1600 tex 150	24K – 1600 tex 150		0,30
CCX 300 KB	300		50K – 3750 tex 150	50K – 3750 tex 150		0,30
CCX 400 B	400		24K – 1600 tex 200	24K – 1600 tex 200		0,40
CCX 400 KB	400		50K – 3750 tex 200	50K – 3750 tex 200		0,40
CCX 600 B	600		24K – 1600 tex 300	24K – 1600 tex 300		0,60
CCX 600 KB	600		50K – 3750 tex 300	50K – 3750 tex 300		0,60
CCX 800 KB	800		50K – 3750 tex 400	50K – 3750 tex 400		0,80
CCX 1000 KB	1000		50K – 3750 tex 500	50K – 3750 tex 500		1,00
CCX+ 300 B	300	24K – 1600 tex 150			24K – 1600 tex 150	0,30
CCX+ 300 KB	300	50K – 3750 tex 150			50K – 3750 tex 150	0,30
CCX+ 400 B	400	24K – 1600 tex 200			24K – 1600 tex 200	0,40
CCX+ 400 KB	400	50K – 3750 tex 200			50K – 3750 tex 200	0,40
CCX+ 600 B	600	24K – 1600 tex 300			24K – 1600 tex 300	0,60
CCX+ 600 KB	600	50K – 3750 tex 300			50K – 3750 tex 300	0,60
CCX+ 800 KB	800	50K – 3750 tex 400			50K – 3750 tex 400	0,80
CCX+ 1000 KB	1000	50K – 3750 tex 500			50K – 3750 tex 500	1,00
CCX+ 380 Q	377	12K – 800 tex 94	12K – 800 tex 94	12K – 800 tex 94	12K – 800 tex 94	0,36
CCX+ 300 KQ	300	50 K – 3750 tex 75	50 K – 3750 tex 75	50 K – 3750 tex 75	50 K – 3750 tex 75	0,32
CCX+ 600 KQ	600	50 K – 3750 tex 150	50 K – 3750 tex 150	50 K – 3750 tex 150	50 K – 3750 tex 150	0,65
CCX+ 760KQ	762	24K – 1600 tex 190	24K – 1600 tex 190	24K – 1600 tex 190	24K – 1600 tex 190	0,73

## HYBRID FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
CPB 200	203	Plain	3K – 200 tex CARBON	3270 dtex PBO	5,1	3,1	0,20
CPET 301 HTR	294	2/2 twill	3K – 200 tex CARBON	220 dtex POLY HT RED	7	7	0,25
CA 190	190	Plain	3K – 200 tex CARBON	1670 dtex ARAMIDE	5	5,4	0,20
CA 201	230	3/1 Twill	3K – 200 tex CARBON	1670 dtex ARAMIDE	6	6,5	0,30
CAH 170	170	Plain	1670 dtex – 3K GLASS	1670 dtex – 3K ARAM – CARB	3 C 1,6 A	1,6 C 1,6 A	0,30
CAH 210 S	212	Plain	1670 dtex – 3K GLASS	1670 dtex – 3K ARAM – CARB	2 C 4 A	2 C 4 A	0,25

# FABRICS

## BASALT FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
BB 500	500	Plain	1200 tex	1200 tex	2,1	2,1	0,5

## UD CARBON FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
CVU 140 THT	140	Plain	3K – 200 tex	Hot melt – 110 tex	7	1,25	0,15
CVU 330	328	Plain	12K – 800 tex	Glass fiber – 68 tex	3,8	3,4	0,30
CVU 300 THT	308	Plain	24K – 1600 tex	Hot melt – 110 tex	1,87	1,25	0,30
CVU 400 THT	408	Plain	24K – 1600 tex	Hot melt – 110 tex	2,5	1,25	0,40
CVU 600 THT	608	Plain	24K – 1600 tex	Hot melt – 110 tex	3,7	1	0,60
CVU 800 THT	808	Plain	48K – 3200 tex	Hot melt – 110 tex	2,5	1	0,80
CVU 1200 THT	1200	Plain	48K – 3200 tex	Hot melt – 110 tex	3,75	1	1,20
CVU 307 THM	300	Double Plain	12K – HM	Hot melt – 110 tex	5	1,25	0,30
CVU 407 THM	400	Double Plain	12K – HM	Hot melt – 110 tex	6,7	1,25	0,40
CVU 607 THM	600	Double Plain	12K – HM	Hot melt – 110 tex	10	1,25	0,60

## UD GLASS FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
VVU 300 T	308	Plain	Glass fiber – 400 tex	Hot melt – 110 tex	1,87	1,25	0,30
VVU 600 T	610	Plain	Glass fiber – 2400 tex	Hot melt – 110 tex	2,5	1,25	0,60
VVU 900 T	910	Plain	Glass fiber – 2400 tex	Hot melt – 110 tex	3,75	1,25	0,90

## UD BASALT FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
BVU 400 T	408	Plain	Basalt – 2700 tex	Hot melt – 110 tex	1,5	1,25	0,40
BVU 600 T	610	Plain	Basalt – 2700 tex	Hot melt – 110 tex	2,5	1,25	0,60

## UD ARAMIDIC FABRICS

Style	Weight (gr/smq)	Weaving Construction	Fiber		Warp (threads/cm)	Weft (threads/cm)	Thickness (mm)
			Warp	Weft			
AVU 260 T	274	Plain	Aramid – 3340 dtex	Hot melt – 110 tex	7,8	1,25	0,26
AVU 400 T	418	Double Plain	Aramid – 3340 dtex	Aramid – 3340 dtex	10	2,5	0,40

# RESIN MATRIX SYSTEMS

## AESTHETIC & STRUCTURAL EPOXY PREPREG

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
HEMT3	Automotive Industrial Sporting goods	Autoclave, vacuum bag, wrapping	80 - 140°C	12h - 1,5h	115 - 125°C	Yes	Yes
HEMT4	Automotive Industrial Sporting goods	Autoclave, vacuum bag, wrapping	80 - 140°C	12h - 1,5h	135 - 145°C	Yes	Yes
HEMT7	Automotive Industrial Sporting goods	Autoclave, vacuum bag, wrapping	80 - 140°C	12h - 1,5h	160 - 170°C	Yes	Yes
HEMT9	Automotive Industrial	Autoclave, hot press	80 - 140°C	12h - 1,5h <small>preure</small> 1h 180°C <small>postcure</small>	190 - 200°C	Yes	Yes

## HIGH STRUCTURAL EPOXY PREPREG

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
SEMT1	Automotive Industrial Sporting goods	Autoclave, vacuum bag, wrapping	80 - 140°C	12h - 1,5h	115 - 125°C	No	HIGH

## LOW TEMPERATURE EPOXY PREPREG

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
HELT1	Nautical , Industrial, Automotive, Sporting goods and Prototyping	Autoclave and vacuum bag	65 - 125°C	15h - 1h	115 - 125°C	Yes	Yes
HELT2	Nautical, Industrial, Automotive, Sporting goods and Prototyping	Autoclave and vacuum bag	65 - 125°C	15h - 1h	105 - 115°C	No	HIGH

## AUTOCLAVE NON ISOTHERMAL CURING CYCLE

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
HEMP4	Automotive Industrial	Autoclave non isothermal curing cycle	Ramp up from 25°C to 145°C then ramp down to 25°C	1,5°C/min ramp up 2,5°C/min or more ramp down	115 - 125°C	Yes	Yes

\* Suggested moulding equipment

\*\* Minimum and maximum curing temperatures

\*\*\* Suggested curing time based on Fibertech internal tests

\*\*\*\* Laboratory measurement performer on 200 g/sqm fabric fully cured

# RESIN MATRIX SYSTEMS

## FLAME RETARDANT EPOXY PREPREG

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
<b>HAFR 2</b>	Automotive, Industrial, UL94V0 certified	Autoclave	135°C	1,5h	120 - 130°C	Yes	Yes

## OUT OF AUTOCLAVE EPOXY PREPREG

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
<b>HEVT2</b>	VBO and high quality surface demand for nautical sector	Vacuum bag	80°C voids extraction phase 135°	2 - 4 (OR 12h) 1 h	105- 110°C	Yes	Yes
<b>HEMT8</b>	VBO and high quality surface demand	Vacuum bag and Autoclave	80°C voids extraction phase 135°	2 - 4 (OR 12h) 1 h	110 - 120°C	Yes	Yes

## FAST CURE EPOXY PREPREG

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
<b>HEMT4 SPEED</b>	Automotive Industrial Sporting goods	Hot press and Autoclave	140 - 150°C	10min - 6min	140 - 150°C	Yes	Yes
<b>HEMT5 SPEED</b>	Automotive Industrial Sporting goods	Hot press and Autoclave	140 - 150°C	10min - 6min	130 - 140°C	Yes	Yes

## PREPREG FOR TOOLING

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
<b>TOOL 1</b>	Tooling	Autoclave	55 - 90°C precure 180 - 200 postcure	15h - 2h 6h - 4h	205 - 215°C	NO	Yes
<b>TOOL 2</b>	Tooling / prototyping	Autoclave	65 precure 180 postcure	16h 4h	200 - 210°C	No	Yes

\* Suggested moulding equipment      \*\* Minimum and maximum curing temperatures      \*\*\* Suggested curing time based on Fibertech internal tests  
 \*\*\*\* Laboratory measurement performer on 200 g/sqm fabric fully cured

# RESIN MATRIX SYSTEMS

## EPOXY PREPREG FOR RECYCLED CARBON FIBER

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
HETNT resin for recycled carbon fiber	Automotive, Industrial, Sporting goods and prototyping	Autoclave and vacuum bag	80 - 125°C	12h - 1h	110 - 115°C	Yes	Yes
HETNT FAST resin for recycled carbon fiber	Automotive, Industrial, Sporting goods and prototyping	Hot Press	140 - 150 °C	10 min - 6 min	120 - 125°C	Yes	Yes
HETNT LT1 resin for recycled carbon fiber	Automotive, Industrial, Sporting goods and prototyping	Autoclave and vacuum bag	65 - 125°C	16h - 1h	110 - 115°C	Yes	Yes
HETNTP resin for recycled carbon fiber	Automotive Industrial	Autoclave non isothermal curing cycle	Ramp up from 25°C to 145°C then ramp down to 25°C	1,5°C/min ramp up 2,5°C/min or more ramp down	120 - 130°C	Yes	Yes
HETNT HT resin for recycled carbon fiber	Automotive, Industrial, Sporting goods and prototyping	Autoclave	80-130°C precure 180 postcure	15h - 2h 1h - 1,5h	180 - 190°C	NO	Yes
MAGMA VSV resin for recycled carbon fiber	Tooling	Autoclave	55 - 80°C precure 180 - 200 postcure	15h - 2h 6h - 4h	210°C	NO	Yes
MGM ETN resin for recycled carbon fiber High Shelf Life	Tooling	Autoclave	65 - 80°C precure 180 - 200 postcure	15h - 5h 4h - 2h	220°C	No	Yes

## EPOXY FILM

Resin Type	Application field	Application technology*	Temperature curing range**	Curing Time***	Maximum Tg Tan Delta peak by DMA****	Cosmetic application	Toughened
ADF 1	Adhesive film	Autoclave and vacuum bag	65 - 120 °C	16h - 1,5h	105 - 110°C	NO	Yes
ADFE	Expanding syntactic film	Autoclave and vacuum bag	130°C	1h	110°C	NO	Yes
FSCA	Sandable surfacing film for class A paint	Autoclave	80 - 140 °C	12h - 1h	155 - 160°C	Gray color, tuneable on request	Yes

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\* Suggested moulding equipment      \*\* Minimum and maximum curing temperatures      \*\*\* Suggested curing time based on Fibertech internal tests  
 \*\*\*\* Laboratory measurement performer on 200 g/sqm fabric fully cured



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