



**zedt<sup>ex</sup>**  
Composite Fabrics

With a proven background in supplying adhesives and advanced textiles to the defence industry, Zedtex has now partnered with Guang Wei Composites and other leading manufacturers in order to offer a comprehensive range of high performance but affordable composite fabrics.

Our partners are currently supplying fabrics to the world's leading boat builders, wind turbine manufacturers and sporting equipment producers.

All our materials are produced to international quality standards and with state of the art manufacturing technologies. A standard range of widely used carbon fibre Prepreg, Multiaxial and Hybrid fabrics are available, although custom designed materials can also be supplied to individual customer needs.

We can supply a broad range of both dry and prepreg unidirectional (UD), woven and stitched multiaxial fabrics. A wide choice of resin matrixes in our prepregs permit the end-user to engineer components with specific strength, toughness, temperature resistance or fire retardant properties.

All materials used and manufactured by Guang Wei Composites undergo full quality inspection. Individual prepreg roll test reports are produced and upon request, all carbon fibre prepregs can be supplied with original fibre certification.



<b>Fibre Type</b>	<b>Description</b>	<b>Minimum FAW (gsm)</b>	<b>Maximum FAW (gsm)</b>	<b>Range</b>
Carbon	Collimated Unidirectional	24	600	HS, HE, IM, HM
	Woven	100	660	Plain, Twill and Satin
	Multiaxial	300	600	Biaxial, Triaxial, Quadraxial
Glass	Collimated Unidirectional	75	1800	E-glass, S-glass
	Woven	100	1000	Plain, Twill and Satin
	Multiaxial	300	1800	Biaxial, Triaxial, Quadraxial

Carbon Fabrics available in Dry or Prepreg Form.  
Fibreglass fabrics available in Prepreg Form only

Additional Items Also Available:

- Hybrid combinations: e.g. Carbon/Glass, Carbon/Aramid
- Weave Set: 2% resin content or thermoplastic binder to hold fibres together when cutting fabric
- Coloured Carbon/Glass. Available in Red, Silver, Gold, Blue
- Basalt Fibre Fabrics: Excellent heat and chemical resistance

Matrix grade	Description	Tg Onset (DMTA) °C	Typical Cure Cycle		Toughness			Fire retardent		Outlife at room temperature (days)	Minimum storage time at -18 °C (months)	Typical applications and characteristics
			Temp °C	Time (mins)	High	Med	Low	Yes	No			
6509	General Purpose Epoxy	110	120	90		x			x	60	12	General Industrial, Sports goods, Marine
6511	General Purpose Elevated Service Temperature Epoxy	127	120	90					x	60	12	Elevated operating temperature, Performance components
7901	Toughened Epoxy	115	120	90	x				x	60	12	Sports goods, Marine,
9314	Toughened Epoxy	110	120	90		x			x	60	12	Sports goods, Marine, Automotive, Spars
9A16	Toughened Epoxy	146	120	90	x				x	60	12	Sports goods, Marine, Automotive, Spars
10128	High Service Temperature Epoxy	170	120	90		x			x	60	12	Aerospace, Automotive components
6518	Fire Retardent Epoxy	100	120	90				x	x	60	12	Meets UL94-V0 standard
9B14	Fire Retardent Epoxy (Halogen Free)	100	120	90				x	x	60	12	As above, halogen free
6512	Low Exotherm, Low Viscosity, Low Tack	112	120	90		x			x	60	12	Large structures, Wind turbine blades, Automotive leaf springs
7112	Low Exotherm, Low Viscosity, Medium Tack	110	120	90		x			x	60	12	Large structures, Wind turbine blades, Automotive leaf springs
9817	Low Temperature Cure	95	85	600		x			x	30	12	Large structures for Marine, Architecture
6517	Low Temperature Cure Adhesive Film	95	85	600	x				x	30	12	Core interfaces

Order code	Product Description	Fibre properties			Typical fibres used	FAW (gsm)	Backer format	Standard roll length (lm)	Standard roll quantity (sqm)	Internal core diameter (mm)
		Tensile Strength (Mpa)	Tensile Modulus (Gpa)	Filament Count						
<b>High Strength (HS) UD CF Prepreg</b>										
<b>(HS fibre)</b>										
11130101	9817/HS/150g/500mm/36+/-2%	>3,800	236 +/-7	12k/24k	TOHO HTS40, Tairifil TC35	150 +/- 5%	1xpaper, 1x 80gsm.emb.PE	140	70	300
11130102	9817/HS/200g/500mm/36+/-2%	>3,800	236 +/-7	12k/24k	TOHO HTS40, Tairifil TC35	200 +/- 5%	1xpaper, 1x 80gsm.emb.PE	120	60	300
11130103	9817/HS/300g/500mm/36+/-2%	>3,800	236 +/-7	12k/24k	TOHO HTS40, Tairifil TC35	300 +/-5%	1xpaper, 1x 80gsm.emb.PE	100	50	300
11130104	9817/HS/450g/500mm/36+/-2%	>3,800	236 +/-7	12k/24k	TOHO HTS40, Tairifil TC35	450 +/-5%	1xpaper, 1x 80gsm.emb.PE	75	37.5	300
<b>High Elongation (HE) UD CF Prepreg</b>										
<b>(HE fibre)</b>										
11140101	9817/HE/150g/500mm/36+/-2%	> 4,800	240 +/-8	12k/24k	TOHO UTS50, Tairifil TC36S	150 +/- 5%	1xpaper, 1x 80gsm.emb.PE	140	70	300
11140102	9817/HE/200g/500mm/36+/-2%	> 4,800	240 +/-8	12k/24k	TOHO UTS50, Tairifil TC36S	200 +/- 5%	1xpaper, 1x 80gsm.emb.PE	120	60	300
11140103	9817/HE/300g/500mm/36+/-2%	> 4,800	240 +/-8	12k/24k	TOHO UTS50, Tairifil TC36S	300 +/-5%	1xpaper, 1x 80gsm.emb.PE	100	50	300
11140104	9817/HE/450g/500mm/36+/-2%	> 4,800	240 +/-8	12k/24k	TOHO UTS50, Tairifil TC36S	450 +/-5%	1xpaper, 1x 80gsm.emb.PE	75	37.5	300
<b>Intermediate Modulus (IM) UD CF Prepreg</b>										
<b>(IM fibre)</b>										
11150101	9817/IM/300g/500mm/36+/-2%	> 4,400	299 +/-9	12k	TOHO IMS40, Tairifil TC42	300 +/- 5%	1xpaper, 1x 80gsm.emb.PE	100	50	300
<b>High Modulus (HM) UD CF Prepreg</b>										
<b>(HM fibre)</b>										
11160101	9817/HM/150g/500mm/36+/-2%	> 4,300	380 +/-10	12k	TOHO UMS40, Grafil HR40	150 +/- 5%	1xpaper, 1x 80gsm.emb.PE	140	70	300
11160102	9817/HM/200g/500mm/36+/-2%	> 4,300	380 +/-10	12k	TOHO UMS40, Grafil HR40	200 +/- 5%	1xpaper, 1x 80gsm.emb.PE	120	60	300
11160103	9817/HM/300g/500mm/36+/-2%	> 4,300	380 +/-10	12k	TOHO UMS40, Grafil HR40	300 +/-5%	1xpaper, 1x 80gsm.emb.PE	100	50	300
11160104	9817/HM/450g/500mm/36+/-2%	> 4,300	380 +/-10	12k	TOHO UMS40, Grafil HR40	450 +/-5%	1xpaper, 1x 80gsm.emb.PE	75	37.5	300
<b>Woven CF Prepreg</b>										
<b>(HS fibre)</b>										
11230101	9817/FC200P/HS/1250mm/40+/-2%	> 3,800	236 +/-7	3k Plain	TOHO HTS40, Tairifil TC35	200 +/-5%	1 x 80gsm.emb.PE	70	87.5	76
11230102	9817/FC200T/HS/1250mm/40+/-2%	> 3,800	236 +/-7	3k Twill	TOHO HTS40, Tairifil TC35	200 +/-5%	1 x 80gsm.emb.PE	70	87.5	76
<b>Multiaxial CF Prepreg</b>										
<b>(HE fibre)</b>										
11340101	9817/XC300/HE/1270mm/40+/-2%	> 4,800	240 +/-8	12k, +/-45 deg	TOHO UTS50, Tairifil TC36S	300 +/-5%	1 x 80gsm.emb.PE	50	63.5	76
11340102	9817/XC400/HE/1270mm/40+/-2%	> 4,800	240 +/-8	12k, +/-45 deg	TOHO UTS50, Tairifil TC36S	400 +/-5%	1 x 80gsm.emb.PE	40	50.8	76
<b>Structural Adhesive Film</b>										
<b>(Carrier)</b>										
35400201	6517/150g/P16/1000mm	n/a	n/a	n/a	Spun Polyester PP	16 +/-2	1xpaper, 1x 80gsm.emb.PE	125	125	76
35400202	6517/250g/P16/1000mm	n/a	n/a	n/a	Spun Polyester PP	16 +/-2	1xpaper, 1x 80gsm.emb.PE	80	80	76
35400203	6517/400g/P16/1000mm	n/a	n/a	n/a	Spun Polyester PP	16 +/-2	1xpaper, 1x 80gsm.emb.PE	60	60	76
<b>Impregnated Peelply</b>										
14200101	9817/peelply/N80/1000mm/50+/-2%	n/a	n/a	n/a	Polyamide (nylon)	80 +/-5%	1xpaper, 1x80gsm.emb.PE	100	100	76

Prepreg Shelf Life:  
1 Month stored at 22°C  
3 Months stored at 0°C  
6 Months stored at below -18°C

## CORE CARBON WOVEN FABRICS - AVAILABLE AS PREPREG OR IN DRY FORM

No	Code No	Woven Method	CF Type		Density (ends/10mm)		Measures		Weight (g/m <sup>2</sup> )
			warp	weft	warp	weft	width (mm)	thickness (mm)	
1	W-1011	plain	1K	1K	9.10	9.10	1002.5±2.5 (1000-1005)	0.16±0.02	125±5
2	W-1021	2/2 twill	1K	1K	9.10	9.10	1002.5±2.5 (1000-1005)	0.16±0.02	125±5
3	W-1031	3/3 twill	1K	1K	9.10	9.10	1002.5±2.5 (1000-1005)	0.16±0.02	125±5
4	W-1911A	plain	1K	Glass 120tex	9.10	9.10	1002.5±2.5 (1000-1005)	0.20 ±0.02	175±5
5	W-3011	plain	3K	3K	4.92	4.92	1002.5±2.5 (1000-1005)	0.25±0.02	198±5
6	W-3021	2/2 twill	3K	3K	4.92	4.92	1002.5±2.5 (1000-1005)	0.25±0.02	198±5
7	W-3911A	plain	3K	Glass 300tex	4.92	4.92	1002.5±2.5 (1000-1005)	0.27±0.02	230±5
8	W-3921A	2/2 twill	3K	Glass 300tex	4.92	4.92	1002.5±2.5 (1000-1005)	0.27±0.02	230±5
9	W-6011	plain	6K	6K	4.00	4.00	1002.5±2.5 (1000-1005)	0.44±0.02	324±6
10	W-6021	2/2 twill	6K	6K	4.00	4.00	1002.5±2.5 (1000-1005)	0.44±0.02	324±6

## TRICOT FABRICS - AVAILABLE AS PREPREG OR IN DRY FORM

Construction	Fabric Weight (g/m <sup>2</sup> )	Resin Types	Resin Content
Uni Directional	24-1800	Epoxy & Phenolic	30-50%
Biaxial	300-1250	Epoxy & Phenolic	30-50%
Triaxial	300-1250	Epoxy & Phenolic	30-50%
Quadraxial	300-1250	Epoxy & Phenolic	30-50%

With a long history in sourcing and distributing technical materials Zedtex are also proud agents for:



Para-Aramid yarn and fabrics for advanced composites and ballistics



Adhesives for ballistic armour systems



Advanced thermoplastic adhesive films for composites



Custom made infrared heaters for coating, thermoforming and laminating systems

For further inquiries or if you would like a quotation please do not hesitate to contact us

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