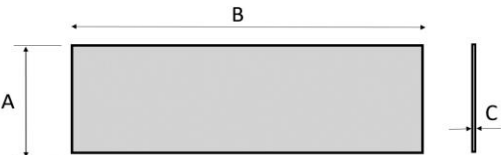
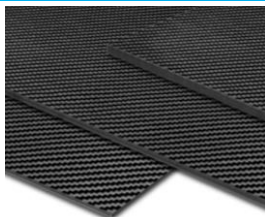


PRODUCT DATA SHEET																									
Product group:					CARBON FIBER EPOXY PANELS					document nr.: PDSCFCPanels															
characterisitcs					Full Carbon Panels Non Painted					Issue Date: 15-12-2017															
Production process:					Prepreg Lamination Technology					Revision: 3															
										Revision Date: 8-6-2021															
PRODUCT SPECIFICATIONS FOR ALL SPECIFIED PRODUCTS IN THIS DATASHEET																									
										RESINAS CASTRO S.L. Pol. Ind. A Granxa, 3ª Paralela C/Cíes 190, 36400 O Porriño – ESPAÑA Tlf.: +34 986 342 955 Fax: +34 986 342 520 E-mail: shop@castrocomposites.com web: www.castrocomposites.com															
PRODUCT DIMENSIONS										PRODUCT QUALITY															
A: Width:		mm	Product Specific							Visual Grade on surface		Satin finish at both sides of the panel													
B: Length:		mm	Product Specific									Small pinholes may occur, this is due to production process													
C: Wall thickness:		mm	Product Specific							Fiber Fabric Weave		The fabric may have some spread													
E: Straightness		mm	Product Specific							Edges Cut		The edges of the 100x500 panels may have a more rough finish													
Surface finish:			Semi Gloss							Product Packaging		Product individually packed in standard CarbonWebshop packaging													
Fibers:			Carbon Fiber Tow 3K T300 or equivalent							Skin material		Fabric	Twill weave												
Resin:			standard grade Epoxy Resin							Core Material		50% UD-0° fibers placed in length direction of panel													
Glass Transition Temperature			80°C (temperature resistance)									50% UD-90° fibers placed 90° on length of panel													
PRODUCT REFERENCES																									
Product		approximate properties for reference only					Product Specific Dimensions in mm					Finishing		core material		Weight	Density	Fiber Volume Content	Young's Modulus	Tensile Strength	Specific Stiffness	Max. Bending Stress	Bending Stiffness		
							Width	Length	Wall	Tolerance		Skin Fabric		Carbon Unidirectional			p	FV	E	σt	E/p	σ _b	EI		
Reference	Definition	A	B	C	dimension	Thickness	Side 1	Side 2	0°	90°	gram	kg/m^3	%	GPa	N/mm2	MN*m/kg	N/mm2	N*mm^2							
CPL 1025 025	Carbon Fiber Panel 1mm 250x250mm Twill Satin	250	250	1,0	+/- 3mm	+/- 0,2mm	Twill	Twill	50%	50%	105	1.600	69	70	468	44	1804	2,08x10^3							
CPL 1035 015	Carbon Fiber Panel 1mm 350x150mm Twill Satin	350	150	1,0	+/- 3mm	+/- 0,2mm	Twill	Twill	50%	50%	90	1.600	69	70	468	44	1804	2,92x10^3							
CPL 1050 050	Carbon Fiber Panel 1mm 500x500mm Twill Satin	500	500	1,0	+/- 3mm	+/- 0,2mm	Twill	Twill	50%	50%	420	1.600	69	70	468	44	1804	4,17x10^3							
CPL 1050 100	Carbon Fiber Panel 1mm 500x1000mm Twill Satin	500	1.000	1,0	+/- 4mm	+/- 0,2mm	Twill	Twill	50%	50%	840	1.600	69	70	468	44	1804	4,17x10^3							
CPL 1525 025	Carbon Fiber Panel 1,5mm 250x250mm Twill Satin	250	250	1,5	+/- 3mm	+/- 0,2mm	Twill	Twill	50%	50%	150	1.600	69	67	409	42	1082	4,78x10^3							
CPL 1535 150	Carbon Fiber Panel 1,5mm 350x150mm Twill Satin	350	150	1,5	+/- 3mm	+/- 0,2mm	Twill	Twill	50%	50%	123	1.600	69	67	409	42	1082	6,69x10^3							
CPL 1550 050	Carbon Fiber Panel 1,5mm 500x500mm Twill Satin	500	500	1,5	+/- 3mm	+/- 0,2mm	Twill	Twill	50%	50%	610	1.600	69	67	409	42	1082	9,56x10^3							
CPL 1550 100	Carbon Fiber Panel 1,5mm 500x1000mm Twill Satin	500	1.000	1,5	+/- 4mm	+/- 0,2mm	Twill	Twill	50%	50%	1.220	1.600	69	67	409	42	1082	9,56x10^3							
CPL 2025 025	Carbon Fiber Panel 2mm 250x250mm Twill Satin	250	250	2,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	200	1.600	69	72	502	45	1197	1,40x10^4							
CPL 2035 150	Carbon Fiber Panel 2mm 350x150mm Twill Satin	350	150	2,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	170	1.600	69	72	502	45	1197	1,96x10^4							
CPL 2050 050	Carbon Fiber Panel 2mm 500x500mm Twill Satin	500	500	2,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	800	1.600	69	72	502	45	1197	2,80x10^4							
CPL 2050 100	Carbon Fiber Panel 2mm 500x1000mm Twill Satin	500	1.000	2,0	+/- 4mm	+/- 0,3mm	Twill	Twill	50%	50%	1.600	1.600	69	72	502	45	1197	2,80x10^4							
CPL 3025 025	Carbon Fiber Panel 3mm 250x250mm Twill Satin	250	250	3,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	290	1.600	69	68	535	43	1158	3,99x10^4							
CPL 3035 150	Carbon Fiber Panel 3mm 350x150mm Twill Satin	350	150	3,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	245	1.600	69	68	535	43	1158	5,99x10^4							
CPL 3050 050	Carbon Fiber Panel 3mm 500x500mm Twill Satin	500	500	3,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	1.175	1.600	69	68	535	43	1158	7,99x10^4							
CPL 3050 100	Carbon Fiber Panel 3mm 500x1000mm Twill Satin	500	1.000	3,0	+/- 4mm	+/- 0,3mm	Twill	Twill	50%	50%	2.350	1.600	69	68	535	43	1158	7,99x10^4							
CPL 4025 025	Carbon Fiber Panel 4mm 250x250mm Twill Satin	250	250	4,0	+/- 3mm	+/- 0,3mm	Twill	Twill	50%	50%	390	1.600	69	69	540	43	1127	9,33x10^4							
CPL 4035 150	Carbon Fiber Panel 4mm 350x150mm Twill Satin	350	150	4,0	+/- 3mm	+/- 0,35 mm	Twill	Twill	50%	50%	324	1.600	69	69	540	43	1127	1,31x10^5							
CPL 4050 050	Carbon Fiber Panel 4mm 500x500mm Twill Satin	500	500	4,0	+/- 3mm	+/- 0,35 mm	Twill	Twill	50%	50%	1.600	1.600	69	69	540	43	1127	1,87x10^5							
CPL 4050 100	Carbon Fiber Panel 4mm 500x1000mm Twill Satin	500	1.000	4,0	+/- 4mm	+/- 0,35 mm	Twill	Twill	50%	50%	3.200	1.600	69	69	540	43	1127	1,87x10^5							
CPL 6025 250	Carbon Fiber Panel 6mm 250x250mm Twill Satin	250	250	6,0	+/- 3mm	+/- 0,4mm	Twill	Twill	50%	50%	560	1.600	69												
CPL 6035 150	Carbon Fiber Panel 6mm 350x150mm Twill Satin	350	150	6,0	+/- 3mm	+/- 0,4mm	Twill	Twill	50%	50%	470	1.600	69												

PRODUCT REFERENCES

Product		approximate properties for reference only					Product Specific Dimensions in mm				Finishing		core material		Weight	Density	Fiber Volume Content	Young's Modulus	Tensile Strength	Specific Stiffness	Max. Bending Stress	Bending Stiffness		
							Width	Length	Wall	Tolerance		Skin Fabric		Carbon Unidirectional		ρ	FV	E	σt	E/ρ	σ _b	EI		
Reference	Definition	A	B	C	dimension	Thickness	Side 1	Side 2	0°	90°	gram	kg/m^3	%	GPa	N/mm2	MN*m/kg	N/mm2	N*mm^2						
CPL 6050 500	Carbon Fiber Panel 6mm 500x500mm Twill Satin	500	500	6,0	+/- 3mm	+/- 0,4mm	Twill	Twill	50%	50%	2250	1.600	69											
CPL 6050 100	Carbon Fiber Panel 6mm 500x1000mm Twill Satin	500	1000	6,0	+/- 4mm	+/- 0,4mm	Twill	Twill	50%	50%	4500	1.600	69											
CPL 8062 062 HS	Carbon Fiber Panel 8mm 620x620mm Twill Satin	620	620	8,0	+/- 3mm	+/- 0,4mm	Twill	Twill	50%	50%	3800	1.600	69											
CPL 8062 122 HS	Carbon Fiber Panel 6mm 1220x620mm Twill Satin	1220	620	8,0	+/- 4mm	+/- 0,4mm	Twill	Twill	50%	50%	7600	1.600	69											
CPL 1062 062 HS	Carbon Fiber Panel 6mm 620x620mm Twill Satin	620	620	10,0	+/- 3mm	+/- 0,5mm	Twill	Twill	50%	50%	4725	1.600	69											
CPL 1062 122 HS	Carbon Fiber Panel 6mm 1220x620mm Twill Satin	1220	620	10,0	+/- 4mm	+/- 0,5mm	Twill	Twill	50%	50%	9450	1.600	69											
CPL 1262 062 HS	Carbon Fiber Panel 6mm 620x620mm Twill Satin	620	620	12,0	+/- 3mm	+/- 0,5mm	Twill	Twill	50%	50%	5750	1.600	69											
CPL 1262 122 HS	Carbon Fiber Panel 6mm 1220x620mm Twill Satin	1220	620	12,0	+/- 4mm	+/- 0,5mm	Twill	Twill	50%	50%	11500	1.600	69											

disclaimer: The data in this sheets are approximate values, based on general purpose calculations and technical data sheets from material suppliers.

The raw materials used can be replaced by alternative materials with equivalent values.

Resinas Castro S.L. cannot take responsibility that products will meet the specification and will take no responsibility for any damages, directly or indirectly, related to the use of these products.

If you want to use our parts for specific situations where mechanical properties are to be prooved or validated we strongly advise to functional test the products in the environment you are intend to use it.

We have engineering expertise to support you with FEM analyses. If needed please contact us for further details