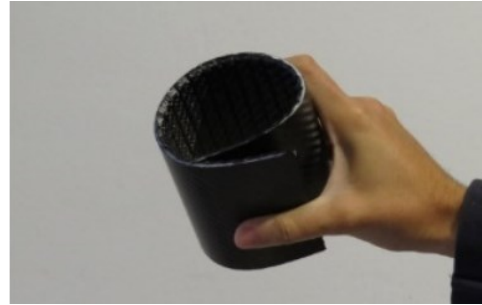


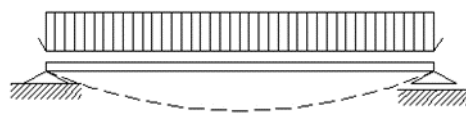
MadFlex 5.5 mm CARBON DELUXE

Besides its excellent mechanical and thermal properties, this MadFlex is perfect for high-end, technological and luxurious products. Thanks to its double layer in aesthetic carbon, it can be easily applied for example to sports cars, yachts, aeronautic and upmarket furnishing and design solutions. It represents also the ideal solution to connect together rigid carbon panels, giving them flexibility with elegance and without discontinuity.

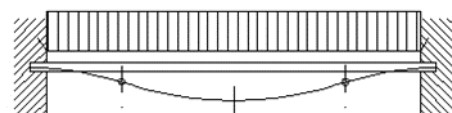


	UNIT	TYPICAL VALUE	TEST
Thickness	mm	5.5	
Areal weight	kg/m ²	1.2	
Tensile strength	kN/m	450	ASTM D3039/D3039M
Failure bending moment	N·m/m	275	ASTM D7250/D7250M
Bending stiffness "rigid side"	N·m ² /m	105	ASTM D7250/D7250M
Bending stiffness "flexible side"	N·m ² /m	0.8	ASTM D7250/D7250M
Flatwise compressive strength	MPa	1.7	ASTM C365/C365M
Heat transfer coefficient	W/ m ² °K	7.2	DIN52612

Maximum load for a 0,5 m x 0,5 m panel for two different restraint conditions:



Simple supports: 448 kg



Fixed supports: 9460 kg

OTHER FEATURES

- Thermoformable
- Super flex - 10 m rollable rollable in a diameter of 20 cm
- Excellent resistance to atmospheric and UV radiations
- Great resistance to chemical agents (eg hydrocarbons)
- It can continuously work up to 110° C
- Biocompatible
- Excellent vibration damping ability
- Great flexional elasticity