

MadFlex 1.8 mm EXTRA SLIM

The Extra Slim MadFlex meets the demand of those companies, which want to create small and thin MadFlex components, as well as compact large surfaces into smaller units. For example, you can roll a 1.8 mm panel around a tube with a diameter of 4 cm. Besides its thickness, it is extremely light, self-sustaining and it shows a tensile resistance higher than the one of traditional technical textiles, therefore it is particularly suitable to create tensile structures.

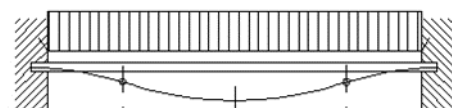


	UNIT	TYPICAL VALUE	TEST
Thickness	mm	1.8	
Areal weight	kg/m ²	0.7	
Tensile strength	kN/m	400	ASTM D3039/D3039M
Failure bending moment	N·m/m	90	ASTM D7250/D7250M
Bending stiffness "rigid side"	N·m ² /m	10	ASTM D7250/D7250M
Bending stiffness "flexible side"	N·m ² /m	0.2	ASTM D7250/D7250M
Flatwise compressive strength	MPa	1.7	ASTM C365/C365M
Heat transfer coefficient	W/ m ² °K	22.5	DIN52612

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



Simple supports: 140 kg



Fixed supports: 4,000 kg

OTHER FEATURES

- Customizable appearance and colour
- More flexible than other MadFlex types
- Thermoformable in plane or curved shapes
- Great resistance to atmospheric agents and UV radiation
- Good resistance to chemical agents
- Good resistance to spike penetration and blade cutting
- Biocompatible