

MadFlex 3.5 mm SUPER ROLL

This MadFlex represents the perfect compromise between high mechanical performances, lightness, affordability and flexibility. It is the recommended solution to compact large rigid and resistant surfaces into a small volume with the minimum effort. Endless possible customizable variants.

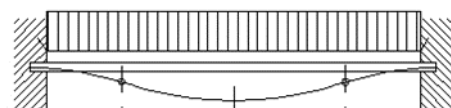


	UNIT	TYPICAL VALUE	TEST
Thickness	mm	3.5	
Areal weight	kg/m ²	1	
Tensile strength	kN/m	370	ASTM D3039/D3039M
Failure bending moment	N·m/m	120	ASTM D7250/D7250M
Bending stiffness "rigid side"	N·m ² /m	25	ASTM D7250/D7250M
Bending stiffness "flexible side"	N·m ² /m	0.2	ASTM D7250/D7250M
Flatwise compressive strength	MPa	1.7	ASTM C365/C365M
Heat transfer coefficient	W/ m ² °K	11.2	DIN52612

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



Simple supports: 195 kg



Fixed supports: 2730 kg

OTHER FEATURES

- Thermoformable
- A 10 m long panel can be wrapped into a 16 cm diameter
- Great resistance to atmospheric agents and UV radiation
- Great resistance to chemical agents
- Biocompatible
- Good flexional elasticity
- Good vibration damping ability (allowing the creation of anti-seismic structures)
- Also large panels can be easily rolled-up manually
- Resistant up to 110° C