

Polypropylene honeycomb core

Polypropylene honeycomb is mainly used as core in composite panels, as reinforcement and as means to lighten structures. The honeycomb is closed on its both sides with a thermo-welded tissue. In case of bending the strain is transferred by the honeycomb core. That is why the strain is shared out in shear and compression over laminates.

Polypropylene honeycombs can be thermo-welded or glued to a number of TNT or technical fabrics which make the production of composites panels easier.

Polypropylene honeycomb is also used to support filters for **corrosive gas emissions**.

In fact, also in such an aggressive environment, you can count on quality and chemical-resistance of this product.

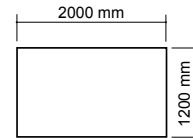
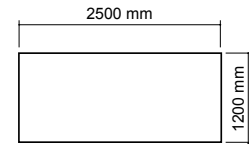


Honeycomb core's properties	
Type	PP 8-80
Cell size mm	8.0
Colour	white
Density kg/m ³	80
Compressive strength MPa DIN 53421	2.0
Compressive modulus MPa DIN 53421	97
Shear strenght MPa DIN 53294	0,55
Shear modulus MPa DIN 53294	12.8
Effective temperature range °C	from - 30 to + 80
Thermal conductivity W/mK 10°	0,102
Sound reduction factor 50 - 4.000 Hz	22 dB
Water absorption max	0.10%
Water absorption 24H	0.10%
Flammability	normal
Thickness mm	from 5 to 90, max 450 (tolerance ± 0.35)
Thickness mm: PP 8-80 T30 *	from 8 to 65 (tolerance ± 0.35)
Thickness mm: PP 8-80 T30F75 **	from 6 to 65

* T30: thermo-welded tissue for glueing.

** T30F75: thermo-welded tissue for wet lay-up.

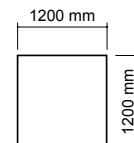
Standard dimensions (other dimensions available on request)



POLYPROPYLENE FLEX honeycomb core's properties	
Thickness mm	from 6 to 20 (tolerance ± 0.35)
Square cut mm	30x30

Other dimensions, core heights and types up on request.
Minimum order quantity for each type: 1 pallet.

Standard dimensions (other dimensions available on request)



Polypropylene flex