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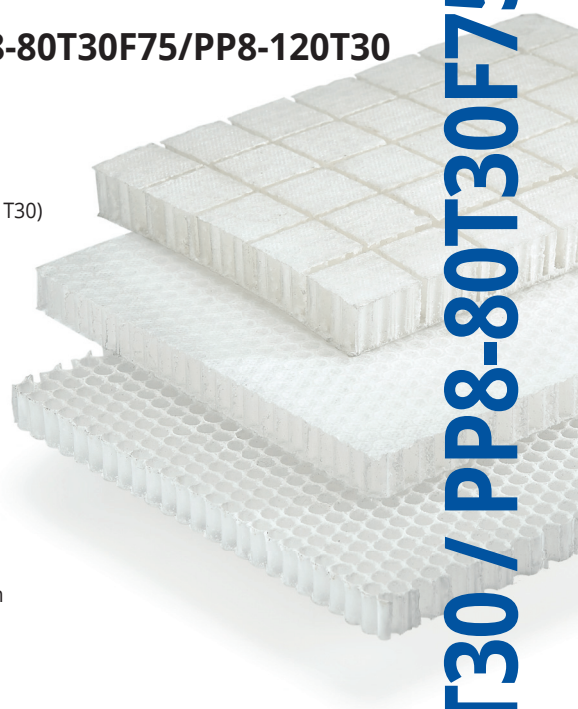
ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

ENG

Polypropylene honeycomb core PP8.80/PP8-80T30/PP8-80T30F75/PP8-120T30



Cel supplies different types of polypropylene honeycombs:
- Polypropylene honeycomb without TNT (PP 8.80)
- Polypropylene honeycomb with TNT (a thin thermowelded tissue on both sides; PP 8-80 T30, PP8-120 T30)
- Polypropylene honeycomb with TNT and a plastic film (thermowelded on both sides; PP 8-80 T30 F75)

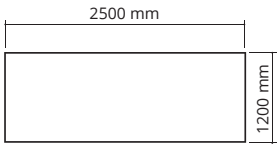
Polypropylene without TNT is a good kinetic energy absorber, therefore it can be uses in crash tests. Polypropylene honeycomb can be thermo-welded or glued to a number of TNT or technical fabrics which make the production of sandwich and lightweight panels easier. In fact, polypropylene honeycomb with TNT is mainly used as core for sandwich, as reinforcement, as flat surface for cutting tools (waterjet cutting machines) and as means to lighten structures.

In addition, polypropylene honeycomb is used as support for filters and it is applied to diminish corrosive gas emissions thanks to the chemical-resistance of this product and it reliability in aggressive environments.
As core in sandwich panels, polypropylene honeycomb is faced with different materials, from aluminium sheets to laminated skins, from marine plywood to fiberglass.

Possible variant with the thickness: 3.5 mm

Honeycomb core's properties				
Type	**PP8.80**	**PP8.80T30**	**PPT30F75**	**PP8.120T30**
Cell size mm	8			
Colour	white			
Density kg/m³	80[1]			120
Compressive strength MPa	1,50	1,75	1,80	3,4
Compressive modulus MPa	70	77	85	90
Shear strength MPa	-	0,53	0,50	1
Shear modulus MPa	-	12	13	18
Effective temperature range °C	from -30 to +80			
Maximum width mm	1400	1500	1500	1500
Minimum width mm	100[2]			600
Maximum length mm	2950[2]	3000	-	3000[2]
Width tolerance mm	+/- 4			
Tolerance length mm	+/- 4			
CORE'S thickness mm	6 - 100	5 - 65	6 - 65	5 - 65

Standard dimensions
(other dimensions available on request)



* **T30**: - thermowelded foil 30gr/m³ for adhesion.
** **T30F75**: thermo-welded tissue for wet lay-up.
1 Density referred to the block dimension
2 on request
- Other dimensions, core heights and types upon request.
- Minimum order quality for each type: 10 pallets.

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Polypropylene PP8.80 / PP8-80T30 / PP8-80T30F75

Last Revised: 11/25_Rev.3