

Polypropylene Honeycomb core

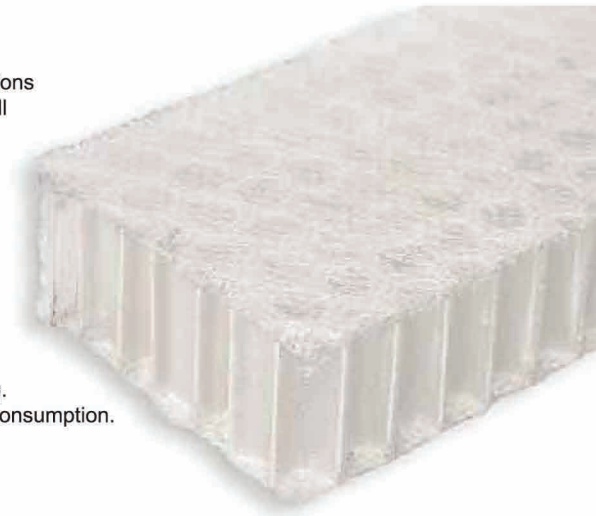
Polypropylene honeycomb is mainly used as core in composite panels, in energy absorption and filtration media. Polypropylene honeycomb exhibits a unique cell structure. The core has 3 orientations vs. the 2 orientations common with other honeycomb, making its properties more uniform. Each cell has a tubular form and is inherently stable.

Honeycomb has the following characteristics:

- high strength to weight ratio
- corrosion, fungi, rot, chemical and moisture resistant
- sound and vibration dampening
- temperature use to 180°F
- recyclable

Polypropylene honeycomb is supplied with or without a non-woven polyester veil for better bonding. It is also supplied with or without a film barrier under the polyester veil to limit the amount of resin consumption.

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



Honeycomb core's properties		
Type	PP 8-80	PP 10-64
Cell size mm [D]	8.0	10.0
Colour	white	white
Density kg/m ³	80	64
Compressive strength MPa DIN 53421	2.0	1.0
Compressive modulus MPa DIN 53421	97	50
Shear strength MPa DIN 53294	0.55	0.3
Shear modulus MPa DIN 53294	12.8	9
Effective temperature range °C	from - 30 to + 80	
Thermal conductivity W/mK 10°	0.102	
Sound reduction factor 50 - 4000 Hz	22 dB	
Water absorption max	0.10%	
Water absorption 24H	0.10%	
Flammability	normal	
Thickness mm	from 4 to 500 (tolerance ± 0.2)	

Standard dimensions (other dimensions available on request)

