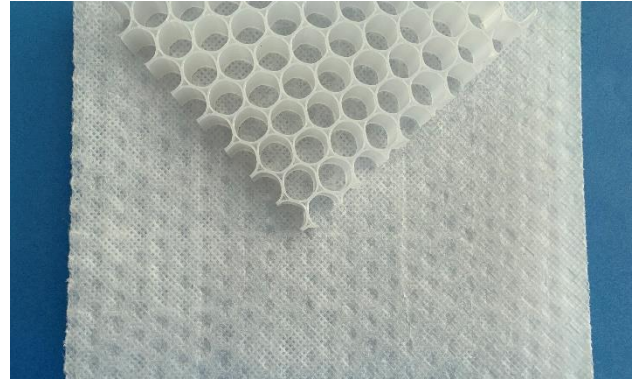


Product Data Sheet: PP Honeycomb

Carbon Core Europe GmbH provides high quality **Polypropylene (PP) Honeycomb**.

Available in different versions:

- Open Cell
- With PP film and polyester veil



Characteristics

- Very lightweight
- Self-extinguishing
- Low resin absorption
- High impact strength
- Great strength to weight ratio
- Sound dampening
- Resistant to corrosion, fungi, rot, moisture and most chemicals
- Recyclable

Industries

- **Marine:** stringers, decks, transoms, bulkheads
- **Industrial:** tanks, covers, ductworks, tooling, container
- **Wind power:** nacelles, rotor blades
- **Road:** cabs, sleeper floors, beds, walls
- **Rail:** floors, doors, side skirts, roof panels, partition walls

Processing

- Contact molding
- Vacuum infusion
- RTM light
- Compression molding
- Adhesive bonding
- Thermoforming

Technical Data: PP Honeycomb

Cell size: 8 mm standard.

Density: 80 kg/m³ standard.

Thicknesses: 6, 10, 13, 16, 19, 25, 30, 38 and 50 mm.

Dimensions: width 1220 mm, length 2440 mm (48" x 96" standard).

Finish: open cells or with PP film + polyester veil.

Property	Standard	Value	Unit
Compressive Strength	ISO 844	1.89	MPa
Compressive Modulus	ISO 844	45.7	MPa
Tensile Strength	ASTM 297	0.89	MPa
Shear Strength	ISO 1922	0.58	MPa
Shear Modulus	ISO 1922	15.2	MPa
Thermal Conductivity	Fourier's law	0.03	k
Dimensional Thermal Stability		from -40 to 110	°C

Disclaimer: All tests have been carried out by an independent laboratory. The information contained herewith regarding our products, processes and equipment, is intended to be up to date, accurate, and complete: It is subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. CARBON CORE EUROPE GMBH MAKES NO WARRANTIES OF ANY KIND REGARDING THESE MATERIALS OR INFORMATION. It is the user's and/or purchaser's responsibility to assess suitability of said material and carry out sufficient testing for its intended purpose. Carbon Core Europe GmbH will not assume any liability from use or misuse of data presented herein.

Further options available upon request:

- width up to 1500 mm;
- length up to 2900 mm;
- thickness: from 5 mm to 50 mm;
- cell size: from 6 mm to 15 mm;
- density: from 60 kg/m³ to 160 kg/m³.

Also available as flexible (grid scored) sheets, or as "Composite Panel".

