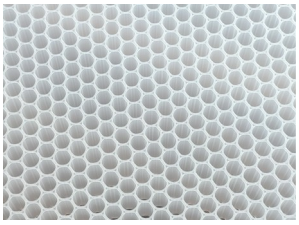
PP HONEYCOMB CORE

PRODUCT DATA SHEET

01 PRODUCT OVERVIEW

PP honeycomb core is a lightweight thermoplastic cellular core made from polypropylene for composite sandwich panels. It combines low weight with good strength-to-weight performance, moisture resistance, impact tolerance, chemical stability, and energy absorption.

The core is commonly used with FRP, aluminum, steel, wood, stone, paper, and other face sheets in transportation, marine, industrial, furniture, sports etc. Cell size, density, sheet dimensions, and surface configuration can be selected according to project requirements.



FEATURES

- Lightweight with high strength-to-weight performance
- Excellent moisture and water resistance
- Good impact resistance and energy absorption
- Good chemical stability and corrosion resistance
- Good thermal and sound insulation in sandwich panels

TYPICAL APPLICATIONS

- Transportation & Commercial Vehicle Panels
- Marine, Yachts & Floating Structures
- Industrial & Filtration Components
- Doors, Furniture & Interior Panels
- Sports & Outdoor Equipment

02 PRODUCT SPECIFICATIONS

Product	PP Honeycomb Core
Material basis	Polypropylene (PP)
Cell size	6 / 8 / 10 mm
Nominal densities	90 / 80 / 75 kg/m³ (for 6 / 8 / 10 mm cells)
Core face configuration	Open Cell / Film-Sealed
Surface options	Bare / Non-woven fabric / Non-woven fabric + film
Service temperature	-40°C to +80°C
Standard sheet size	1220 × 2440 mm /1250 × 3000 mm
Core thickness	Custom: 5-100 mm

03 TECHNICAL PARAMETERS

Product	**PP Honeycomb Core**		
Cell Size	6 mm	8 mm	10 mm
Nominal Density (kg/m³)	90	80	75
Cell Configuration	Film-Sealed	Film-Sealed	Film-Sealed
Compressive Strength (MPa)	—	1.57	—
Flexural Strength (MPa)	—	0.61	—
Shear Strength (MPa)	0.45	0.45	0.45
Service Temperature (°C)	-40 to +80	-40 to +80	-40 to +80
Thermal Insulation U-Value (W/m²·K)	2.2	2.2	2.2

Core Thickness (mm)	5-100	5-100	5-100
Thickness Tolerance (mm)	±0.3	±0.3	±0.3
Standard Sheet Size (mm)	1220 × 2440	1220 × 2440	1220 × 2440
Maximum Sheet Size (mm)	1250 × 3000	1250 × 3000	1250 × 3000

04 CUSTOMIZATION

AVAILABILITY & CUSTOMIZATION

- Cell size, density and core thickness can be selected according to project requirements.
- Standard and custom sheet sizes are available subject to technical review.
- Surface configuration can be supplied bare, with non-woven fabric, or with non-woven fabric plus film.
- Final mechanical performance depends on the selected core configuration and finished panel structure.