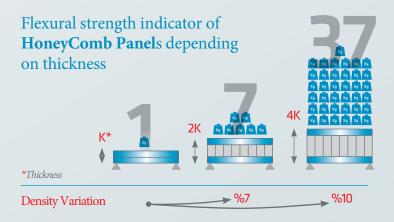


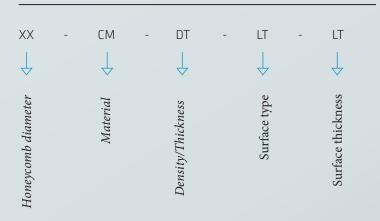


About Hexapan Honeycomb

Our production is mainly HoneyComb Core and thermoplastic HoneyComb Sandwich panels. Our products with outstanding features such as lightness, high compressive strength and being eco-friendly, are used mainly in products such as van trailer, high-speed rail, aerospace, household goods, military, industrial, sports and leisure products. Due to it will make a very big and positive effect to our common living area, to increase the usage of this new composite material in our daily lives, has became our responsibility and duty.



Hexapan Specifications **PP HoneyComb** naming convention



For example:

Type 9,6PP120/20WPC1,2→ Honeycomb cell diameter : 9,6MM

Material : PP

Density/Thickness: 120 kg/m3 - 20mm Surface Type: Wood plastic composite

Surface Thickness: 1,2

Total Thickness: 20+(1,2x2)= 22,4 mm

Properties

Lightweight and robust
High compressive strength
High shear strength

Eco-friendly

Energy-saving
 100% recycling
 Does not contain volatile organic compounds
 Does not contain any harmful odors or folmaldehit.

Resistance to Water and Moisture

With their perfect water resistance, thermoplastic composites can be used in above-water structures

Resistance to corrosive liquids

High resistance against sea water and chemicals

Sound Insulation

Has the features of vibration reducing and sound absorbing

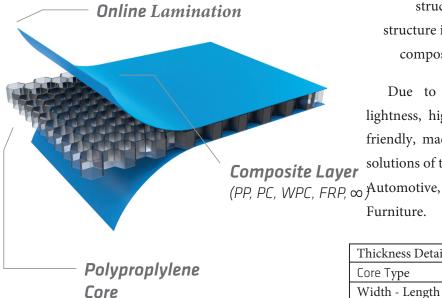
Energy absorber

The structure in the shape of customized honeycomb has the features of high level energy absorbing, high impact resistance and loadbearing.





Hexapan HoneyComb Panel Type



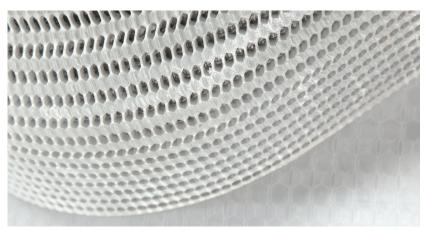
Hexapan Honeycomb panel is a high techonolgy sandwich structure with a honeycomb structure inside, and high specific composite folios on both sides.

Due to its features such as lightness, high resistance and ecofriendly, made it the indispensable solutions of the main sectors such as Construction,

Furniture.

Thickness Details : 4 - 40 mm		
Core Type	: PP, PC Max.	
Width - Length	: 2,1 - 12 m	
Weight	: 1000 - 8000 gr/m²	
Surface Type	: PP, PC, WPC, FRP ∞	

Formable and Workable Panel Structure







CORNER POST

PENETRABLE





SCREWABLE

WORKABLE





PAINTABLE

STICKABLE





FORMABLE

CAN BE ADDED





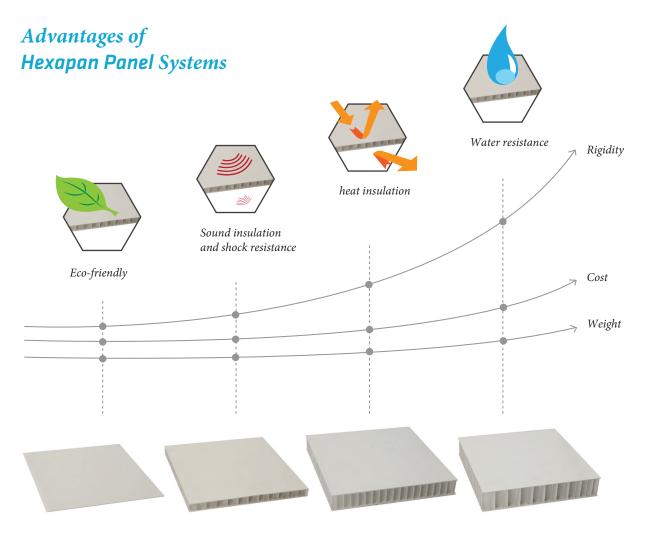
CAN BE CUT

PLIABLE





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Cost effective solution suggestions are provided by ensuring optimization in production with Honeycomb core structure where all advantages are combined.

Thermal Insulation

Due to compressed air in the comb cells, thermal insulation performance of the Honeycombs is much higher, comparing to metals with hard polymer core, glass and sandwich panels. While thermal insulation coefficient of a typical PP comb structure Honeycomb was 0.07 WmK, thermal conductivity of panels with hard PP cores is approximately 0.02 WmK.

Product type	Aluminium and alloys	Glass	Classical Al composite panel with hard PP/PE core	PP Honeycomb composite panel
Thermal insulation performance	None or very weak		Good	Perfect

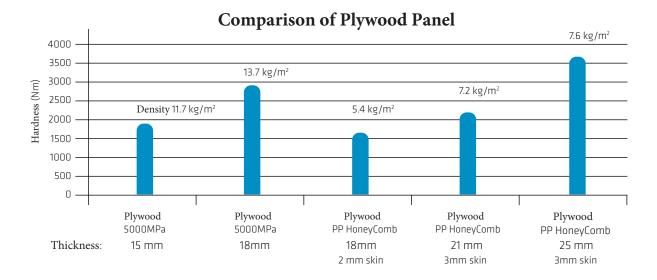


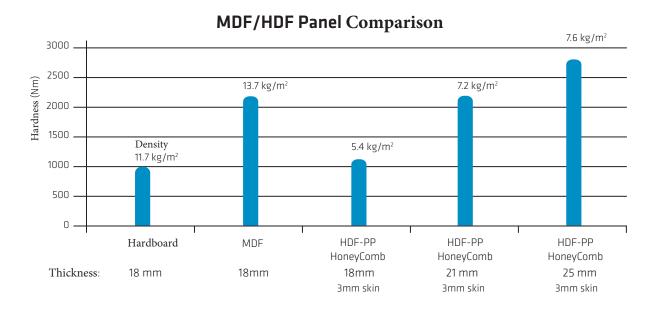


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Comparison of Thermoplastic HoneyComb with other Panels

Hexapan-Corrugated steel plate	Hexapan-Plywood	Hexapan-Fiber Reinforced Polymer
It is light, easy to install	It is light, easy to install	It is light, easy to install
High impact resistance	High impact resistance	High impact resistance
Resistant (with fiberglass)	Robust (with fiberglass)	Waterproof
Thermal insulation, waterproof	Waterproof, high heat resistance	High resistance to delamination
Foods can be carried	Foods can be carried	100% recyclable
Stainless, high corrosion resistance	Eco-friendly 100% recyclable	Easy to repair
Easy to repair	Increases resistance to oil and contamination	Long lifetime
Long lifetime	Easy to repair	
	Long lifetime	





MDF board faced honeycomb tile is very effective in processing industry. When thickness of hardboard means at 18mm, 2mm HDF faced PP Honeycomb shows a bending lesser than half weight.





HoneyComb Panel Features

Lightness

 Honeycomb plates consist of two surface plates and a honeycomb shaped core structure.

With low density property of the thermoplastic structure, superiority is provided compared to materials such as metal and ceramic and others

Recycling

Panels are 100% recyclable. Our product which is free from additives such as adhesive film, consists of PP and composite folios.



Impact Resistance

In room conditions, when 20mm diameter of load is applied, impact resistance is over > 80J and at -20 °C up to 35 J.



Chemical Resistance

PP comb structure and composite folio provide superior resistance against chemicals.



Compressive Strength

On the short term loadings, it is determined that it has resistance up to 1.6 Mpa of pressure, on 75x75mm area.



Procedures

 Panels can be formed with chip removal and thermoforming methods.
 It is suitable especially for riveting, welding and bonding



Environmental Resistance Factor

It is proven with tests that surface plates have perfect UV resistance and also show high resistance against chemical, petrol and oil derivatives.

Water absorption of the panel is below 14%.



Thermal Insulation

Our panels whose thermal conductivity in room conditions is less than 0.12 W/mK, also can be used for heat insulation purposes.



Bending Feature

- There is no torsion observed on 8 kg of load which is put along the 600 mm of the bearing support distance of the standard plate in 30mm thickness and 100mm width.







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Application Areas

Pallets and Plastic Container

Usage Area

In packaging of all kinds of industrial products

Advantages

- Lightness
- High resistance
- Recycling feature
- Resistanceagainstmoisture and chemicals



Automotive

Usage Area

Load-bearing floors, side panels, baggage pool, the internal components

Advantages

- Lightness
- High Resistance
- Moisture resistance
- Easy to form



, Light commercial vehicle

Usage Area

03

Commercial vehicle trailer

- Advantages

- Lightness
- Compressive strength to the load
- Energy absorption
- Easy to install and use
- Recycling feature



A Yachting

Usage Area

Body, division, deck, basic construction, interior design

Advantages

- Lightness
- Energy-saving
- Shock absorption
- Corrosion resistance
- Sound insulation







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High-Speed Train

Usage Area

Floor, side and roof coverings

Advantages

- High Strength
- Excellent Sound Resistance
- Shock resistance
- Moisture resistance



06 Wind Energy

Usage Area

Each surface of the tank, the outer composite structure, the top, base and side portions

Advantages

- Sound insulation
- Shock resistance
- Water resistance, humidity resistance
- Long-lasting
- UV-resistant



Solar Panels

07

Usage Areas

Supporting division of solar panels

Advantages

- UV resistance,
- Lightness
- Moisture resistance
- High strength



, Household Appliances

Usage Area

Upper and divisive trays

- Advantages

- High strength
- Moisture resistance
- Lightness
- With other mounting components ultrasonic welding possibility







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Prefabricated House

Usage Area

Wall panels, floor panels, kitchen, partitions

- Advantages

- Easy installation and removal
- Reusability
- Water and moisture resistance
- Excellent sound resistance
- Excellent dimensional stability
- Strong shock resistance
- Thermal insulation



Construction

"//

Usage Area

Formwork and support parts

Advantages

- Lightness
- Moisture resistance
- High strength
- Recycling capability
- Reusability



Granite and Natural Stone Support Panels

Usage Area

In all kinds of natural stone applications

Advantages

- Lightness
- High strength
- High shock resistance



12 Carrying Chests

Usage Area

In all kinds of carrying chests, travel bags and lugagges

Advantages

- Lightness
- Moisture resistance
- High Strength
- Recycling Feature



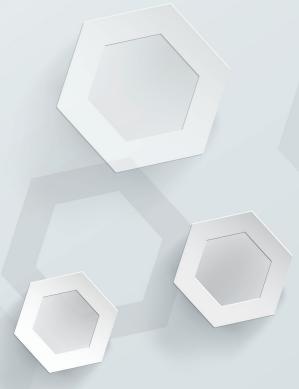




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