

## Thermoplastic Honeycomb Sandwich Panels

### Category

Lightweight thermoplastic sandwich Panels (PP)

### Advantage

- Lightweight and increased performance;
- Excellent compression strength, stiffness and impact resistance;
- Moisture resistance and rot resistance;
- Acoustics;
- Custom Dimensions;
- Completely Recyclable, environment friendly.

### Application

With the high strength, lightweight, recyclable, the thermoplastic honeycomb sandwich panels are used in van panels, construction ,architecture, boats, ect..

- Trucking and Trailer
- Construction
- Architecture and swimming pool
- Yachts and boats
- Wind and solar

### Main Material Properties

Properties	Test Standards	Units	Typical Value
Weight		Kg/m <sup>2</sup>	4.4(25mm core), 4.8(30mm core)
Impact resistance	GB/T 1451	kJ/m <sup>2</sup>	>25
Compression Strength <sup>1</sup>	GB/T 1453	MPa	1.5~2.2
Compressive Modulus <sup>1</sup>	GB/T 1453	MPa	30~100
Bending Force <sup>1</sup>	GB/T 1456	N	1200~2500
Shear Strength	GB/T 1455	MPa	0.45~0.55

Note<sup>1</sup>: Typical value is affect by the thickness of the sandwich panel.

