

POLYPROPYLENE HONEYCOMB

Product Description:

Polypropylene honeycomb is the core material used to obtain lightweight but rigid structures. It can be applied to both surfaces of carbon/glass fiber plate, aluminum, HPL, etc. it is used to obtain very light sandwich panels by gluing surface materials. In order for the panel to be made effectively, 30gr/m² polyester tulle is glued on both sides of the honeycomb. Surface tulle provides great convenience in application because it prevents the resin applied to the surface for bonding from flowing into the cell pores and creates an extra bonding surface.

Application Areas:

- Airline
- Automotive
- Marin
- It is used in advanced composite applications.

Features and Advantages:

- Lightweight
- High compressive strength
- Not affected by moisture and water
- The thickness can be adjusted according to the request
- Easy cutting, practical application
- Its material is Polypropylene

Technical Specifications:

Kind	PP8-80
Color	White
Cell Diameter	8 mm
Thickness	15 mm
Weight	5 kg kit
Operating Temperature	-30 / +80
Surfaces	30gr/m ² polyester tulle
Compressive Strength (MPa) DIN 53421	2.0
Pressure Modulus (MPa) DIN 53421	97
Tear Strength (MPa) DIN 53294	0.55
Tearing Modulus (MPa) DIN 53294	12,8
Thermal conductivity (W/mk,10°C)	0.102
Sound Insulation Rate 50 - 4.000 Hz	22dB
Water Absorption Rate	0.10%
Flammability	Normal
Density	80kg/m ³
Measure	120cm*250cm

Thickness mm PP 8-80	5 -90, maks 450
Thickness mm PP 8-80 T30(PP8-80+ tül)	8-65

Technical Specifications:

Kind	PP8-80	PP12-70
Color	Natural	Natural
Cell Diameter (mm)	8	12
Density (Kg/m ³)	80-90	70-80
Compressive Strength (MPa)	2.3	2.0
Shear Strength (MPa)	0.5	0.5
Operating Temperature (°C)	-30/+80	-30/+80
Thermal conductivity (W/mk,10°C)	0.102	0.102
Standard sizes	1200*2400mm	
Thickness	Optional	

Ürün Çeşitleri:

- PP8-80 (cell diameter 8mm, density 80kg-90kg/m³)
- PP12-70 (cell diameter 12mm, density 65kg-75kg/m³)

PP8-80	PP12-70	
cell diameter 8mm, density 80kg-90kg/m ³	cell diameter 12mm, density 65kg-75kg/m ³	
PP8-80T30	PP12-70T30	T30: surface tulle 30g/m ²
PP8-80T30F	PP12-70T30F	T30F: surface tulle 30g/m ² and PP film coated
PP8-80T60	PP12-70T60	T60: surface tulle 60g/m ²
PP8-80T60F	PP12-70T60F	T60F: surface tulle 60g/m ² and PP film coated

Surface Tulle Options:

There are 2 types of surface tulle options as 30gr/m² and 60gr/m². The use of surface tulle brings the advantage of facilitating the applications of panel manufacturers and prevents the resin used especially during bonding from flowing into the cell cavity.

Advantages:

Lightness, high compressive strength, resistance to moisture and water, the ability to adjust the thickness at will.