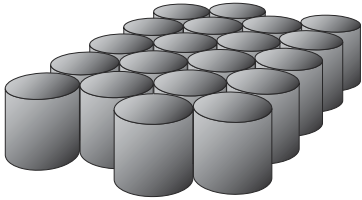


PC Polycarbonate Honeycomb



Description:

PC polycarbonate honeycomb exhibits a unique cell structure. The core has 3 orientations vs. the 2 orientations common with other honeycomb, making its properties more uniform. Each cell has a tubular form and is inherently stable.

Applications:

PC polycarbonate honeycomb uses include wind tunnels – grilles, sandwich cores, radomes – antennae, skylights, energy absorbing structures and EMI/RFI shielding.

Features:

- Excellent dielectric properties
- Good thermal and electric insulator
- Conductive grades available
- Corrosion resistant
- Fungi resistant
- Sandwich skins can be melted to core
- Use temperatures below 93°C
- Small cell sizes at high densities
- Available transparent and in colors

Availability:

PC polycarbonate honeycomb is available in the following standard dimensions.

Cell Sizes: 2,5mm - 12,0mm
(other sizes available upon request)

Densities: 55kg/m³ to 160kg/m³

Thickness: 2,0mm - 300,0mm

Sheet Length: 3.000mm [max]

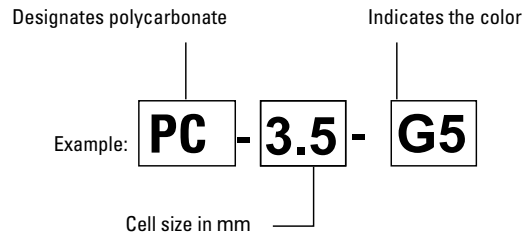
Sheet Width: 1.500mm [max]

Tolerances: Length: ± 3,2mm
Width: ± 3,2mm
Thickness: ± 0,5mm
Density: ± 15%

NOTE: Special colors, dimensions, cell sizes, shapes, tolerances and mechanical properties can be provided upon request.

PC polycarbonate honeycomb is specified as follows:

Material - Cell Size - Color - Thickness



Mechanical Properties

PLASCORE Honeycomb Designation			Typical Bare Compressive *	Typical Plate Shear *	
Core Type	Cell Size [mm]	Density [kg/m ³]	Strength [MPa]	Shear [MPa]	Modulus [KPa]
PC	2,5	90	2,84	1,28	35852
PC	3,5	70	1,55	0,85	27716
PC	6,0	55	1,0	0,62	21097
PC	10,0	55	0,91	0,52	20063
PC	12,0	55	1,23	0,65	21787

Tested per MIL-STD-401 at room temperature.

*Minimum values may be up to 25% lower than typical values.

Plascore GmbH & Co. KG, employs a quality management system that is ISO 9001 certified.

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