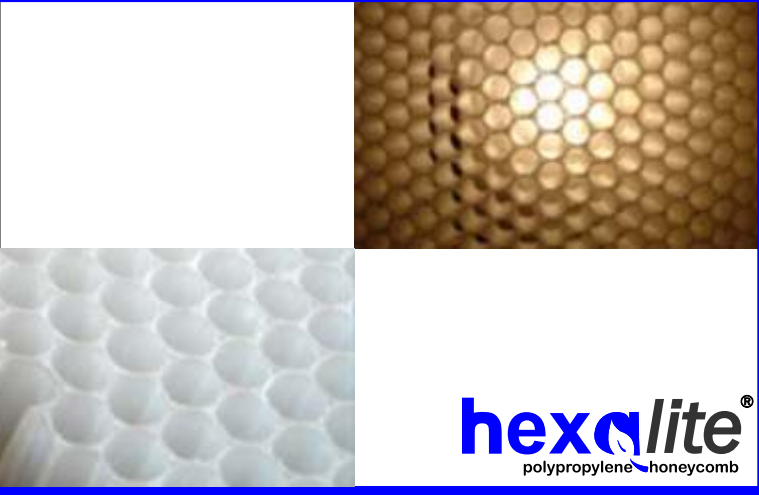


# Hexalite

Proven Material, Breakthrough Technology



**H**exalite polypropylene honeycomb is fast gaining popularity across many diverse industries as the world looks for new materials to improve performance, reduce weight and lower costs. Due to its superior all-around properties at competitive pricing, hexacor polypropylene honeycomb has been widely used in many applications that demand strength-to-weight performance.

## Superior Core Material

Hexalite polypropylene honeycomb is typically used as a core material in sandwich constructions whereby it is sandwiched between strong facing skins such as aluminum, steel, wood, paper and fiberglass. The resulting construction behaves much like an I-beam, which benefits from increased strength and stiffness at reduced weight.

## Unique Cell Matrix

Hexalite polypropylene honeycomb are made up of cell structures that are round rather than hexagonal, more closely resembling honeycomb structures that exist in nature. The round cell structures give the resulting cell matrix 3 orientations vs. The 2 orientations in hexagonal matrices. As a result, Hexacor polypropylene honeycomb properties are more uniform in all directions across the entire sheet of honeycomb.

Properties	Tests	PP - 8
Cell Size		8 mm
		0.3 "
Density	ISO 845	80.0 kg/m <sup>3</sup>
		5.0 lb/ft <sup>3</sup>
Compressive Strength	ISO 844	2.0 MPa
		290 psi
Compressive Modulus	ISO 844	95 MPa
		13,779 psi
Shear Strength	ISO 1922	0.6 MPa
		87 psi
Shear Modulus	ISO 1922	13 MPa
		1,856 psi
Tensile Strength	ASTM C297	0.7 MPa
		102 psi

## Operating Properties

Temperature Range	-30°C to 80°C (-22°F to 176°F)
Thermal Conductivity	(at 10°C or 50°F) 0.102 W/mK
Sound Attenuation (50 to 4000 Hz)	22 dB
Water Absorption	< 0.1%
Flammability (DIN 4102-1)	Normal Inflammable (B2)

## Superior Quality

Hexalite polypropylene honeycomb cells are fused together rather than glued. Without the presence of glue as the "weakest link" in the honeycomb matrix, Hexacor polypropylene honeycomb sheets are more resilient.

Every cell in a Hexacor polypropylene honeycomb is very stable. Hexacor's manufacturing technology allows it to produce honeycomb cells that are extremely consistent regardless of any honeycomb sheet size.