

PolyCore – Extruded Polypropylene Honeycomb Panels

Environmentally Friendly!! This product is recyclable!!!

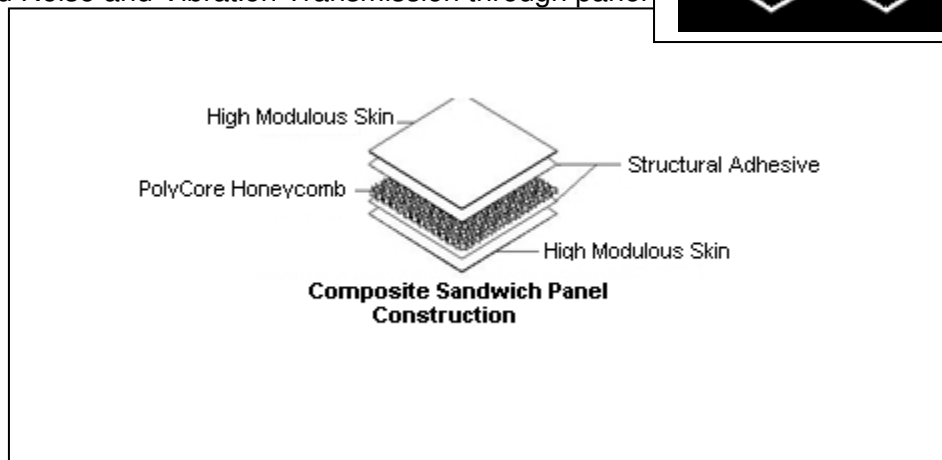
PolyCore is made in USA for NVT by a leading manufacturer of honeycomb and lightweight composite core products. PolyCore thermoplastic honeycomb is extruded from virgin polypropylene. It is not thermo-welded or built up in sections like other commonly used brand manufacturers. Consequently PolyCore can be supplied in thickness from ¼” to 12” and in panel sizes as wide as 6 Feet and Lengths up to 50 Feet. Standard stocking panel size is 4’ x 8’.

PolyCore also provides improved acoustic damping loss and higher compressive physical strength at 20% lower density than similar polypropylene honeycomb cores available on the market.

PolyCore plastic honeycomb is supplied flat or scored having both sides laminated with non-woven polyester tissue. This allows better bonding of the honeycomb to different surface panels using urethanes, epoxies or other structural adhesives. In addition to the tissue, PolyCore honeycomb has a PP film under the tissue to act as a barrier to prevent resin leaking into the core and thus save resin consumption.

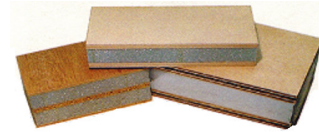
Benefits of Lightweight PolyCore Honeycomb Panels:

- Weight savings up to 90%
- High Strength: Weight and Stiffness: Weight ratios.
- Cost savings in handling and shipping.
- Fuel economy and increased speed in transportation.
- Reduced Noise and Vibration Transmission through panel



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PolyCore Polypropylene Honeycomb

Description: **PolyCore** polypropylene honeycomb core exhibit's a unique cell structure. The core has 3 orientations vs. 2 orientations common with other honeycomb, making its properties more uniform. Each cell has a tubular form and is inherently stable.

PolyCore polypropylene honeycomb is supplied with or without a non-woven polyester veil for better bonding. It is also supplied with or without a film barrier under the polyester veil to limit the amount of resin consumption.

Features:

- High Strength to Weight Ratio
- Corrosion, Fungi, Rot Chemical, Moisture resistant
- Sound and vibration damping
- Energy Absorbing
- Thermoformable
- Temperature use to 180 degrees F
- Recyclable

Availability:

- Thickness: 0.25" - 12"
- Length: Up to 50 Feet
- Width: Up to 6 Feet
- Tolerances: +/- 0.02 on thickness; +/- 0.375 length & width

Typical Structural Data at Room Temperature

Product Description			Compression Strength	Compression Modulus	Shear Strength	Shear Modulus	Tensile Strength
Identification *	Cell Size	Density					
HC48-5	0.30"	5 pcf	235 psi	10.5 ksi	75 psi	2.0 ksi	175 psi
HC48-4	0.40"	4 pcf	140 psi	7.2 ksi	40 psi	1.3 ksi	125 psi

*Product Identification:

HC48-4 - Surface Veil with film Barrier / 4# pcf

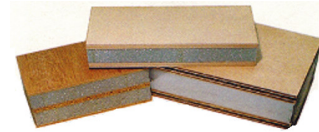
HC48-5 - Surface Veil with film Barrier / 5# pcf

Scoring available up on request

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POLYCORE POLYPROPYLENE BUILDER-OEM
PRICE LIST - Effective September 2007 SOLID with VEIL SCRIM

MODEL	SIZE	DEPTH	DENSITY / #/CU. FT.	PRICE / BOARD	PRICE / SQ. FT.
HC482505	4' x 8'	0.25"	5	46.22	1.44
HC4851605	4' x 8'	0.3125"	5	47.52	1.49
HC483804	4' x 8'	0.375"	4	45.36	1.42
HC483805	4' x 8'	0.375"	5	49.25	1.54
HC4871604	4' x 8'	0.4375"	4	47.14	1.47
HC4871605	4' x 8'	0.4375"	5	51.41	1.61
HC485004	4' x 8'	0.5"	4	48.82	1.53
HC485005	4' x 8'	0.5"	5	54.43	1.70
HC485804	4' x 8'	0.625"	4	54.86	1.71
HC485805	4' x 8'	0.625"	5	61.34	1.92
HC487504	4' x 8'	0.75"	4	60.05	1.88
HC487505	4' x 8'	0.75"	5	66.53	2.08
HC481004	4' x 8'	1.0"	4	69.55	2.17
HC481005	4' x 8'	1.0"	5	76.46	2.39
HC481504	4' x 8'	1.5"	4	102.38	3.20
HC481505	4' x 8'	1.5"	5	122.26	3.82
HC482004	4' x 8'	2.0"	4	133.06	4.16
HC482005	4' x 8'	2.0"	5	154.66	4.83
HC483004	4' x 8'	3.0"	4	174.53	5.45
HC483005	4' x 8'	3.0"	5	204.34	6.39

SCORED with VEIL SCRIM

HCS482505	4' x 8'	0.25"	5	50.29	1.57
HCS4851605	4' x 8'	0.3125"	5	51.64	1.61
HCS483804	4' x 8'	0.375"	4	47.82	1.49
HCS483805	4' x 8'	0.375"	5	54.43	1.70
HCS4871604	4' x 8'	0.4375"	4	50.98	1.59
HCS4871605	4' x 8'	0.4375"	5	54.86	1.71
HCS485004	4' x 8'	0.5"	4	51.19	1.60
HCS485005	4' x 8'	0.5"	5	57.67	1.80
HCS485804	4' x 8'	0.625"	4	59.02	1.84
HCS485805	4' x 8'	0.625"	5	65.23	2.04
HCS487504	4' x 8'	0.75"	4	65.66	2.05
HCS487505	4' x 8'	0.75"	5	72.14	2.25
HCS481004	4' x 8'	1.0"	4	60.48	1.89
HCS481005	4' x 8'	1.0"	5	75.17	2.35

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