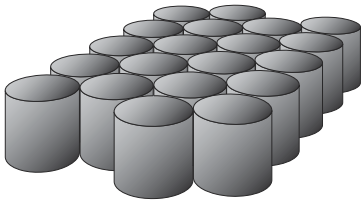


PP Polypropylene Honeycomb



Description:

PP polypropylene 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.

PP 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.

Applications:

PP polypropylene honeycomb uses include sandwich panel cores, energy absorption and filtration media.

Features:

- High strength to weight ratio
- Corrosion, fungi, rot, chemical and moisture resistant
- Sound and vibration dampening
- Energy absorbing
- Thermoformable
- Temperature use to 180°F
- Recyclable

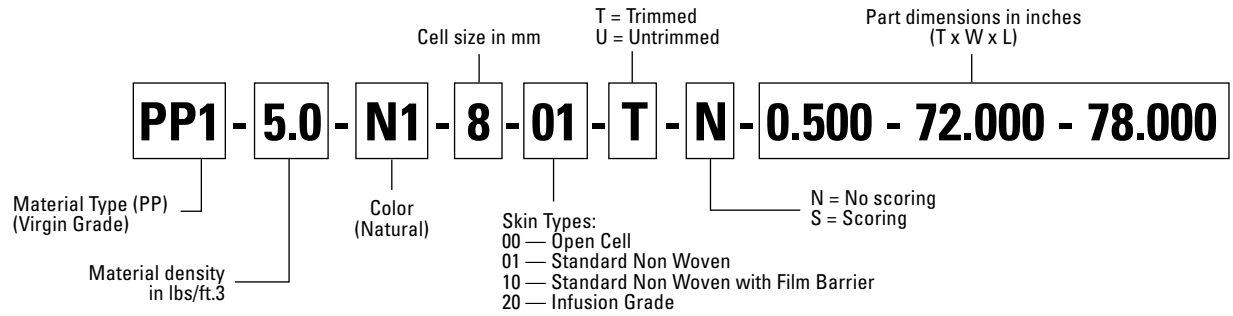
Availability:

PP polypropylene honeycomb is available in the following standard dimensions.

Densities:	3.5 to 20.0 pcf
Thickness:	¼" to 6" Laminated; up to 24" open cell
Sheet Length:	Up to 50'
Sheet Width:	72" max.
Tolerances:	Length: ± .125"
	Width: ± .125"
	Thickness: ± .02"
	Open Cell: ± .03"
	w/reinforced PP facings ± .03"
Density:	± 10%

PP polypropylene honeycomb is specified as follows:

Material - Cell Size - Color - Thickness



PP Honeycomb Core Mechanical Properties

CORE	CELL SIZE		DENSITY				FLATWISE TENSILE ¹		BARE COMPRESSION ²						PLATE SHEAR ³									
			TYPICAL		MINIMUM				TYPICAL STRENGTH		STRENGTH		MODULUS				STRENGTH		MODULUS					
			(in)	(mm)	lb/ft ²	kg/m ³			lb/ft ²	kg/m ³	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa
PP1-5.0-N1-8	0.315	8	5	80.0	4.75	75.0	130	0.89	275	1.89	255	1.55	11.5	79.2	9.5	65.4	85	0.58	75	0.52	2.2	15.2	1.7	11.7
PP1-4.0-N1-10	0.395	10	4	64.0	3.8	60.0	120	0.83	180	1.24	140	0.96	10.5	72.3	8.5	58.5	60	0.41	55	0.38	2.0	13.8	1.5	10.3

The data provided is based on the testing of -01 (veil only) version of each core type.

¹ Flatwise Tensile
 Tested per ASTM C 297
 Room Temperature cure epoxy used

² Bare Compression
 Tested per ASTM C 365

³ Plate Shear
 Tested per ASTM C 273



Plascore, Inc., employs a quality management system that is ISO 9001 and ISO 14001 certified.

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