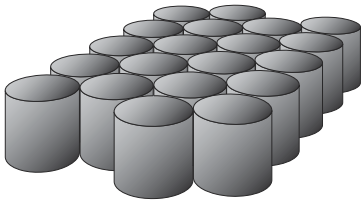


# PP Polypropylene Honeycomb



## Description:

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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:

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

## Features:

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- 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:

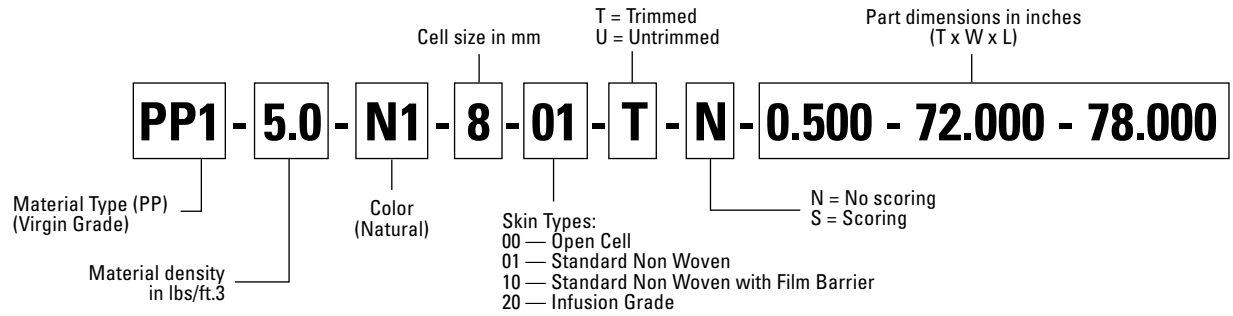
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PP polypropylene honeycomb is available in the following standard dimensions.

<b>Densities:</b>	3.5 to 20.0 pcf
<b>Thickness:</b>	¼" to 6" Laminated; up to 24" open cell
<b>Sheet Length:</b>	Up to 50'
<b>Sheet Width:</b>	72" max.
<b>Tolerances:</b>	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 <sup>1</sup>		BARE COMPRESSION <sup>2</sup>						PLATE SHEAR <sup>3</sup>									
			TYPICAL		MINIMUM				TYPICAL STRENGTH		STRENGTH		MODULUS				STRENGTH		MODULUS					
			(in)	(mm)	lb/ft <sup>2</sup>	kg/m <sup>3</sup>			lb/ft <sup>2</sup>	kg/m <sup>3</sup>	psi	MPa	psi	MPa	psi	MPa	ksi	MPa	ksi	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.

<sup>1</sup> Flatwise Tensile  
 Tested per ASTM C 297  
 Room Temperature cure epoxy used

<sup>2</sup> Bare Compression  
 Tested per ASTM C 365

<sup>3</sup> 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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