



## Typical Physical Properties



Product: *Polycomb*<sup>TM</sup>

### Polypropylene Honeycomb Core



Polycomb is a lightweight plastic honeycomb core with unique properties, combining strength, resilience, and superior sound damping properties. It is suitable for a wide variety of structural sandwich applications. Polycomb is available in plain sheet, scored, double contoured, with non-woven veil, and barrier film. Products without veil and barrier film are available by special order.

Property	Unit	HPP30-5	HPP40-4
Density	kg/m <sup>3</sup>	80	70
	lb/ft <sup>3</sup>	5	4
Cell Diameter	mm	8	12
	in	0.3	0.5
Compression strength	MPa	2.3	2.0
	psi	334	290
Compressive Modulus	MPa	97	93
	psi	14100	13500
Shear strength	MPa	0.5	0.5
	psi	73	73
Shear modulus	MPa	12	8.0
	psi	1740	1160
Temperature range	C	-30 / +80	-30 / +80
	F	-22 / +176	-22 / +176

  

Veil Tissue, optional		Nonwoven Polyester	Nonwoven Polyester
	gm/m <sup>2</sup>	30 and 60	30 and 60
	oz/ft <sup>2</sup>	.1 and .2	.1 and .2

  

Barrier Film, optional	Polypropylene	Polypropylene
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Length	mm ± 4	1220	1220
	in ± 0.16	48	48
Width	mm ± 4	2440	2440
	in ± 0.16	96	96
Thickness	mm ± .5	12.7, 19.0, 25.4	12.7, 19.0, 25.4
	in ± 0.20	1/2", 3/4", 1"	1/2", 3/4", 1"

*Other sizes available by special order*

Data shown are average test values and are believed to be correct. This information is subject to modification without prior notice. X-Cell makes no express or implied warranty regarding its accuracy or use. As with all core materials, you should conduct your own tests to ascertain if the material is suitable for your specific application. Customer is solely responsible for determining fitness for purpose. X-Cell assumes no liability for improper use of its materials. No statement or information herein should be construed or intended as a recommendation to infringe on any patent right.