



Typical Physical Properties



Product: *Synthecell*TM Polyvinyl Foam Core



Synthecell is a low density cross-linked hybrid polyvinyl foam core with excellent mechanical properties and is suitable for use in a wide variety of structural sandwich applications. Synthecell is available in plain sheets, grid scored with scrim, double contoured, grooved, and perforated.

Property	Method	Unit	PV-6	PV-8
Density	ASTM D-1622	kg/m ³	101	133
		lb/ft ³	6.3	8.3
Compression Strength	ASTM D-1621	MPa	1.0	1.3
		psi	145	190
Tensile Strength	ASTM D-1623	MPa	0.9	1.1
		psi	125	160
Shear Strength	ASTM C273	MPa	0.8	1.0
		psi	110	150
Flexural Strength	ASTM D790	MPa	1.5	2.2
		psi	220	315
Flexural Modulus	ASTM D790	MPa	46.5	68.9
		psi	6750	10000

Length		mm ± 6.35	2440
		in ± 1/4	96
Width		mm ± 6.35	1220
		in ± 1/4	48
Thickness		mm ± .5	12.7, 19.1, 25.4
		in ± 0.02"	1/2", 3/4", 1"

Continuous operating temperatures: **170°F**
 Maximum processing temperature: **210°F**
 Density tolerance: **±10%**

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.