

## The Mechanical Properties of Aluminum Honey-comb Core

Properties	Values			
	1/4"	3/8"	1/2"	3/4"
Density(kg/m <sup>3</sup> )	83	54	42	29
Compression Strength Stabilized (MPa)	4.6	2.5	1.5	0.9
Compression Module Stabilized (MPa)	1,000	540	275	165
Plate Shear Strength/L-Direction (MPa)	2.4	1.4	0.9	0.65
Plate Shear Module/L-Direction (MPa)	440	260	220	110
Plate Shear Strength/W-Direction (MPa)	1.5	0.85	0.5	0.4
Plate Shear Module/W-Direction (MPa)	220	130	100	55
Flammability	Non-Combustible			

Based on 75 micron thick aluminum foil