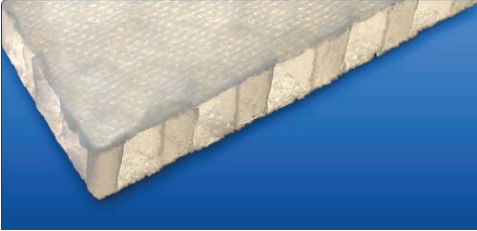


CarbonCore Plastic Honeycomb



The mechanical properties of Carbon-Core Honeycomb are controlled by the following specifications: 1) physical properties of the thermoplastic; 2) cell diameter; 3) wall gauge (thickness of the cell wall); 4) core thickness; and 5) facings applied to the core. Altering one or more of these specifications will produce different performance characteristics. Carbon-Core honeycombs can be engineered to be a specific weight, absorb a specific load, rebound at a specified rate and possess the flexibility or stiffness required by the end application..

	CARBONCORE PLASTIC HONEYCOMB	
	English Unit	Metric Unit
Compressive Strength ISO 844	275 psi	1.89 Mpa
Compressive Modulus ISO 844	11484 psi	79.2 Mpa
Tensile Strength ASTM 297	130 psi	0.89 Mpa
Shear Strength ISO 1922	85 psi	0.58 Mpa
Shear Modulus ISO 19222	2205psi	15.2 Mpa
Thermal Conductivity y Fourier Law	k=.03	k=.03
Water Absorption in 24 hours	0.10%	0.10%
Dimensional Thermal Stability	(-40)F to (230)F	-40C° to 110 C°
Flammability ASTM D776	Inflammable, Not toxic smoke	Inflammable, Not toxic smoke
Density	5.0 Lbs/ft3	80 kg/m3
Peel Strength	Excellent	Excellent
Fatigue Resistance	Excellent	Excellent
Impact Resistance	Excellent	Excellent
Sound Attenuation	Greater than 22Db	Greater than 22Db

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All tests carried out by independent laboratory. This information is provided in good faith and is subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. Carbon-Core Corp will not assume any liability form use or misuse of data presented herein. Assessment of suitability is the responsibility of end user only.