

## Product Data Sheet: H8PP, H8HP



The mechanical properties of Nida-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. Nida-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.

	H8PP		H8HP	
	English Unit	Metric Unit	English Unit	Metric Unit
Compressive Strength	188 psi	1.3 Mpa	348 psi	2.4 Mpa
Compressive Modulus	2175 psi	15 Mpa	7250 psi	50 Mpa
Tensile Strength NFT56-130	72.5 psi	0.5 Mpa	87 psi	0.6 Mpa
Shear Strength ISO 1922	72.5 psi	0.5 Mpa	87 psi	0.6 Mpa
Shear Modulus ISO 19222	725 psi	5 Mpa	1305 psi	9 Mpa
Thermal Conductivity y Fourier Law	k=.03	k=.03	K=.03	k=.03
Water Absorption in 24 hours	0.10%	0.10%	0.10%	0.10%
Dimensional Thermal Stability	(-40)F to (230)F	-40C° to 110 C°	(-40)F to (230)F	-40C° to 110 C°
Flammability ASTM D776	Inflammable, Not toxic smoke	Inflammable, Not toxic smoke	Inflammable, Not toxic smoke	Inflammable, Not toxic smoke
Density	5.0 Lbs/ft3	80 kg/m3	6.9Lbs/ft3	110 kg/m3
Peel Strength	Excellent	Excellent	Excellent	Excellent
Fatigue Resistance	Excellent	Excellent	Excellent	Excellent
Impact Resistance	Excellent	Excellent	Excellent	Excellent
Sound Attenuation	Above 22Db	Above 22Db	Above 22Db	Above 22Db

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. Nida-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.