



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..

	NIDACORE H11PP-45		NIDACORE H11-60		NIDACORE H22-30	
	English Unit	Metric Unit	English Unit	Metric Unit	English Unit	Metric Unit
Compressive Strength ISO 844	58 psi	0.4 Mpa	154 psi	1.1 MPa	29 psi	0.2 MPa
Compressive Modulus ISO 844	1305 psi	9 Mpa	1820 psi	12.6 MPa	870 psi	6.0 MPa
Tensile Strength NFT56-130	44 psi	0.3 Mpa	37 psi	0.43MPa	n/a	n/a
Shear Strength ISO 1922	44 psi	0.3 Mpa	78 psi	0.5 MPa	29 psi	0.2 MPa
Shear Modulus ISO 1922	725 psi	5 Mpa	1108 ps1	7.6 MPa	435 psi	3.0 MPa
Thermal Conductivity y Fourier Law	k=.03	k=.03	K=.03	k=.03	K=.03	k=.03
Water Absorption in 24 hours	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Dimensional Thermal Stability	-40F to 230F	-40C° to 110C°	-40F to 230F	-40C° to 110C°	-40F to 230F	-40C° to 110C°
Flammability ASTM D776	Inflamma-ble, Not toxic smoke	Inflamma-ble, Not toxic smoke	Inflamma-ble, Not toxic smoke	Inflamma-ble, Not toxic smoke	Inflamma-ble, Not toxic smoke	Inflamma-ble, Not toxic smoke
Density	2.8 Lbs/ft ³	45 kg/m ³	3.7 Lbs/ft ³	60kg/m ³	1.9Lbs/ft ³	30 kg/m ³
Peel Strength	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Fatigue Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Impact Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Sound Attenuation	Greater than 22Db	Greater than 22Db	Greater than 22Db	Greater than 22Db	Greater than 22Db	Greater than 22Db

Nida-Core Corp. 541 NW Interpark Place Port St. Lucie FL 34986 USA
Tel: 772.343.7300 Fax: 772.343.9700 www.nida-core.com

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.

Several products offered by Nida-Core Corp. are approved by:

