



HexWeb® HRH-36

Para-Aramid/Phenolic Core



Product Data Sheet

Description

HexWeb® HRH-36 is manufactured using KEVLAR® type N636 paper. The standard resin system is phenolic. Alternate resin systems may be available upon request.

Features

- Low-moisture pickup
- Excellent thermal stability
- Smooth cell wall finish

Applications

HexWeb® HRH-36 is a high performance non-metallic core, available in a wide range of densities, suitable for most composite sandwich applications and can be readily heat formed to help produce complex components. In addition, HexWeb® HRH-36 offers a weight reduction over higher density NOMEX® honeycomb cores.

Standard Dimensions

HexWeb® HRH-36 honeycomb is available in the following standard sizes.

	L	W	T maximum	T minimum
HRH-36 Materials	48 in. \pm 2 in.	96 in. \pm 6 in.	32 in.	.125 in.
HRH-36 OX Materials	36 in. \pm 2 in.	96 in. \pm 6 in.	32 in.	.125 in.

Thickness Tolerance

Standard tolerances on cut thickness are as follows:

- 0.125 in. to 2.000 in. tolerance will be \pm 0.006 in.
- 2.001 in. to 4.000 in. tolerance will be \pm 0.010 in.
- 4.001 in. to 8.000 in. tolerance will be \pm 0.125 in.
- 8.001 in. to 16.000 in. tolerance will be \pm 1.000 in.
- 16.001 in. to 24.000 in. tolerance will be \pm 2.000 in.

Type Designation

HexWeb® HRH-36 honeycomb is designated as follows: Material – Cell size – Density

Example: HRH-36 – 1/8 – 3.0

Where:

HRH-36 – designates honeycomb type

1/8 – is the cell size in inches

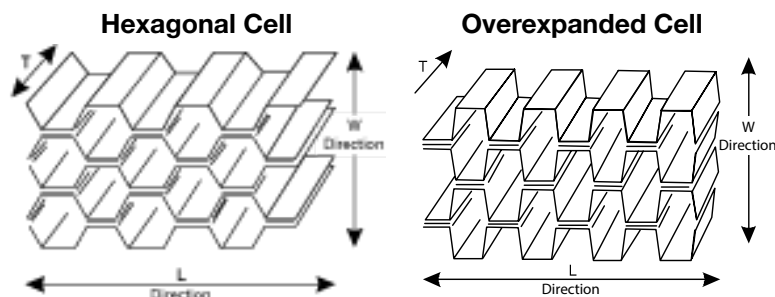
3.0 – is the nominal density in pounds per cubic foot

Dimensional Nomenclature

T = Thickness, or cell depth

L = Ribbon direction

W = Long direction, or direction perpendicular to the ribbon



Images for explanation only and do not represent actual

appearance.



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Availability

HexWeb® HRH-36 is shipped from Casa Grande, Arizona as follows:

SHIPPING TERMS: FCA Hexcel, Casa Grande, AZ, USA (Incoterms 2010)

MATERIAL TITLE TRANSFER: Hexcel, Casa Grande, AZ, USA

Lead times will vary with the particular core type selected.

The information in this Data Sheet is subject to change without notice.

Contact your nearest Hexcel Sales Office for delivery information.

Mechanical Properties

Typical Values Represented Below

The following mechanical properties are proposed minimum average specification values and based on the testing of these products at 0.500 inch thickness. Minimum averages are determined from production averages minus two standard deviations of the test data.

Hexcel Honeycomb Designation Material – Cell Size – Density	Compressive		Plate Shear			
	Bare	Stabilized	L Direction		W Direction	
	Strength psi	Strength psi	Strength psi	Modulus ksi	Strength psi	Modulus ksi
	typ	typ	typ	typ	typ	typ
HRH-36-1/8-3.0 (1.4 mil)	275	385	215	13.6	120	6.9
HRH-36-1/8-3.0 (1.8 mil)	315	400	270	21.5	165	11
HRH-36-1/8-4.5 (1.8 mil)	650	670	330	24	210	12.5
HRH-36-1/8-4.5 (2.8 mil)	530	650	430	33	220	12.7
HRH-36-1/8-6.0 (1.8 mil)	980	1000	470	27	270	13
HRH-36-1/8-6.0 (2.8 mil)	1000	1130	530	38	310	15
HRH-36-3/16 OX-3.0 (1.4 mil)	280	300	130	6.7	155	12.1

Other cell sizes, densities, and dimensions may be available on special request. Please contact your nearest Hexcel Sales Office for additional information. One block minimum buy may apply.

For more information

Hexcel is a leading worldwide supplier of composite materials to aerospace and industrial markets.

Our comprehensive range includes:

- HexTow® carbon fibers
- HexForce® reinforcements
- HiMax™ multiaxial reinforcements
- HexPly® prepregs
- HexMC®-i molding compounds
- HexFlow® RTM resins
- Redux® & HexBond™ adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products
- Polyspeed® laminates & pultruded profiles
- HexAM™ additive manufacturing

For US quotes, orders and product information call toll-free 1-888-611-4038. For other worldwide sales office telephone numbers and a full address list, please go to:

<http://www.hexcel.com/contact>

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