



HexWeb® HRH-36

Para-Aramid/Phenolic Core

Product Data

Description

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

Features

- Mechanical properties equivalent to KOREX®
- 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. It can be readily heat formed to help produce complex components and offers similar mechanical properties to KOREX® core as well as comparable moisture pickup. 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.

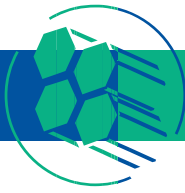
	L	W	T maximum	T minimum	Sq. Ft. Per Panel
HRH-36 Materials	48 in. ± 2 in.	96 in. ± 6 in.	34 in.	0.200 in.	32.0
HRH-36/OX Materials	38 in. ± 2 in.	96 in. ± 6 in.	34 in.	0.200 in.	25.3

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Thickness Tolerance

Tolerances on cut thickness are as follows:

0.125 in. to 2.000 in. tolerance will be ± 0.006 in.

2.001 in. to 4.000 in. tolerance will be ± 0.010 in.

4.001 in. and over tolerance will be $\pm .125$ 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

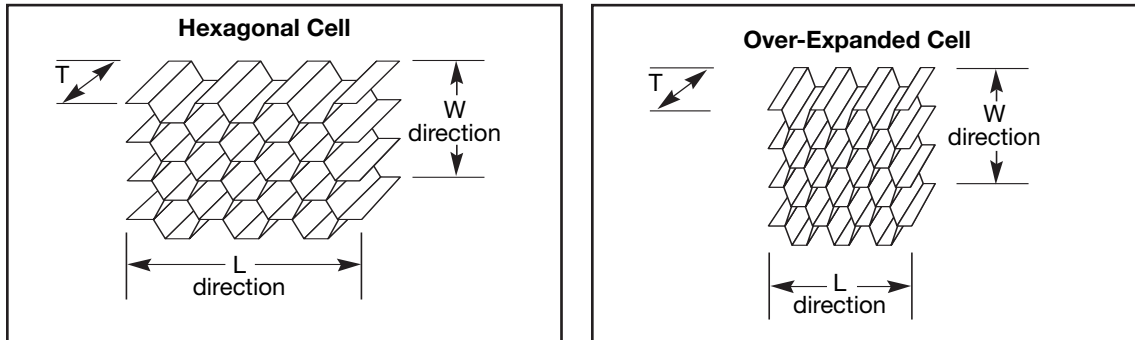
3.0 – is the nominal density in pounds per cubic foot

Dimensional Nomenclature

T = Thickness, or cell depth

L = Ribbon direction

W = Long direction, or direction perpendicular to the ribbon



Availability

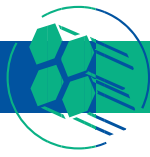
HexWeb® HRH-36 will be shipped from Casa Grande, Arizona or Duxford, UK. Lead times will vary due to core type. Contact the nearest Hexcel Sales Office for delivery information.

Mechanical Properties

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	Compression		Plate Shear			
	Bare	Stabilized	L Direction		W Direction	
	Strength psi	Strength psi	Strength psi	Modulus ksi	Strength psi	Modulus ksi
HRH-36-1/8-2.5	225	245	180	12.7	105	6.0
HRH-36-1/8-3.0	275	385	215	13.6	120	6.9
HRH-36-1/8-3.5	330	420	265	15.9	148	7.2
HRH-36-1/8-4.0	475	585	275	15.4	170	8.8
HRH-36-1/8-4.5	650	670	330	24.0	210	12.5
HRH-36-1/8-4.5*	530	650	430	33.0	220	12.7
HRH-36-1/8-6.0	980	1000	470	27.0	270	13.0
HRH-36-1/8-6.0*	1000	1130	530	38.0	310	15.0
HRH-36-5/32-2.4	220	250	165	12.0	110	7.0
HRH-36-3/16-2.0	140	160	120	10.0	70	4.9
HRH-36-3/16-4.5	600	650	400	23.1	220	10.0
HRH-36/OX-3/16-2.0	145	150	65	3.3	95	8.8
HRH-36/OX-3/16-2.5	250	260	110	6.2	130	11.5
HRH-36/OX-3/16-3.0	280	300	130	6.7	155	12.1

* Made using thicker web paper than the similar item above.



Important

Hexcel Corporation believes, in good faith, that the technical data and other information provided herein is materially accurate as of the date this document is prepared. Hexcel reserves the right to modify such information at any time. The performance values in this data sheet are considered representative but do not and should not constitute specification minima. The only obligations of Hexcel, including warranties, if any, will be set forth in a contract signed by Hexcel or in Hexcel's then current standard Terms and Conditions of Sale as set forth on the back of Hexcel's Order Acknowledgement.

For more information

Hexcel is a leading worldwide supplier of composite materials to aerospace and other demanding industries. Our comprehensive product range includes:

- Carbon Fiber
- RTM Materials
- Honeycomb Cores
- Continuous Fiber Reinforced Thermoplastics
- Carbon, Glass, Aramid and Hybrid Prepregs
- Structural Film Adhesives
- Honeycomb Sandwich Panels
- Special Process Honeycombs
- Reinforced Fabrics

For US quotes, orders and product information call toll-free 1-800-688-7734. For other worldwide sales office telephone numbers and a full address list please click here: <http://www.hexcel.com/contact/salesoffices>.