**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.

<table>
<thead>
<tr>
<th></th>
<th>L</th>
<th>W</th>
<th>T maximum</th>
<th>T minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRH-36 Materials</td>
<td>48 in. ±2 in.</td>
<td>96 in. ± 6 in.</td>
<td>32 in.</td>
<td>.125 in.</td>
</tr>
<tr>
<td>HRH-36 OX Materials</td>
<td>36 in. ±2 in.</td>
<td>96 in. ± 6 in.</td>
<td>32 in.</td>
<td>.125 in.</td>
</tr>
</tbody>
</table>

**Thickness Tolerance**
Standard 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. to 8.000 in. tolerance will be ± 0.125 in.
- 8.001 in. to 16.000 in. tolerance will be ± 1.000 in.
- 16.001 in. to 24.000 in. tolerance will be ± 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.
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.

<table>
<thead>
<tr>
<th>Hexcel Honeycomb Designation</th>
<th>Material – Cell Size – Density</th>
<th>Compressive Strength psi</th>
<th>Plate Shear Strength psi</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bare</td>
<td>Stabilized</td>
</tr>
<tr>
<td></td>
<td></td>
<td>typ</td>
<td>typ</td>
</tr>
<tr>
<td></td>
<td>HRH-36-1/8-3.0 (1.4 mil)</td>
<td>275</td>
<td>385</td>
</tr>
<tr>
<td></td>
<td>HRH-36-1/8-3.0 (1.8 mil)</td>
<td>315</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>HRH-36-1/8-4.5 (1.8 mil)</td>
<td>650</td>
<td>670</td>
</tr>
<tr>
<td></td>
<td>HRH-36-1/8-4.5 (2.8 mil)</td>
<td>530</td>
<td>650</td>
</tr>
<tr>
<td></td>
<td>HRH-36-1/8-6.0 (1.8 mil)</td>
<td>980</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>HRH-36-1/8-6.0 (2.8 mil)</td>
<td>1000</td>
<td>1130</td>
</tr>
<tr>
<td></td>
<td>HRH-36-3/16 OX-3.0 (1.4 mil)</td>
<td>280</td>
<td>300</td>
</tr>
</tbody>
</table>

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