



HexWeb® HDC

Heavy Density Core



Product Data Sheet

Description

HexWeb® HDC is a fabric reinforced honeycomb, made from fiberglass prepreg. A thermosetting node adhesive is used with either a thermoplastic or thermoset resin for the web impregnations. The product was developed for use in temperatures up to 500° F. Depending on the constituent resin system, the product may be suitable for short exposures at higher temperatures.

Features

- High compression strength non-metallic honeycomb available
- Low-moisture pickup
- High thermal stability, very low coefficient of thermal expansion
- High corrosion resistance

Applications

HexWeb® HDC is used in sandwich structure as a replacement for potting compound in hard points or where extremely high compressive or shear strength is required. Using HexWeb® HDC in lieu of potting compound reduces process steps, improves part quality and reduces weight in the overall structure.

Standard Dimensions

HexWeb® HDC is available in standard sheet size of 48 in \pm 1 in L x 32 in \pm 1 in W. For requirements for other size panels, pieces cut-to-size or formed parts, please contact your nearest Hexcel Sales Office.

The following values are production averages. Specification minimum averages should be set by a statistical reduction of production history.

| Material – Cell – Density | Compressive | Long Beam Shears | |
|---------------------------|-----------------|------------------|-----------------|
| | Stabilized | L Direction | W Direction |
| | Strength psi | Strength psi | Strength psi |
| HDC-3/16-16.0 (R2) | 3120 | 1530 | 700 |
| HDC-660-3/16-17.5 (R2) | 3350 | 1780 | 840 |

Thickness Tolerance

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. and over tolerance will be \pm 0.062 in.



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Availability

HexWeb® HDC is shipped 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.

Safety Precautions

A material Safety Data Sheet (MSDS) is available upon request for this product.

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® molding compounds
- HexFlow® RTM resins
- Redux® adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products

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/salesoffice>

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