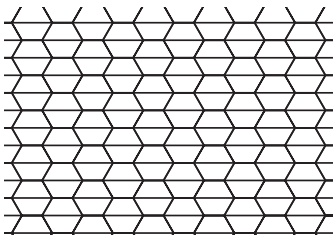


PFHD Aerospace Grade High Density Fiberglass Honeycomb



Description:

PFHD aerospace grade honeycomb exhibits outstanding flammability properties while having extremely high strength characteristics. It is manufactured from a phenolic resin impregnated fiberglass cloth and coated with phenolic resin.

Applications:

PFHD honeycomb is ideal for use in all composite aerostructures, when high mechanical performance is required.

Features:

- Bisected Hexagonal
- Fire resistant for use up to 350°F.
- Can handle higher temps for a short period of time.
- Significantly stronger shear and compressive properties than Aramid.
- Non-hydroscopic

Availability:

PFHD honeycomb is available in three forms: untrimmed sheets, cut to size sheets, and machined components.

Cell Size:	3/16"
Densities:	16 pcf
Configuration:	Plain weave glass, bisected nodes
Sheet "Ribbon" (L):	48" typical
Sheet "Transverse" (W):	32" typical
Tolerances:	L (Ribbon) +3"/-0" W (Transverse) +6"/-0" Thickness: $\pm .006$ " (under 1.5" thick) Density: $\pm 10\%$ Cell Size: $\pm 10\%$

PFHD Fiberglass honeycomb is specified as follows:

Material - Cell Size - Density

Designates high density fiberglass Nominal density in pounds per cubic foot

PFHD - 3/16 - 16.0

Cell size in inches

PFHD Mechanical Properties

Cell size		Nominal density		Compressive strength				Shear strength L direction				Shear modulus L direction		Shear strength W direction				Shear modulus W direction	
				Typical		Minimum		Typical		Minimum		Typical		Typical		Minimum		Typical	
in	mm	lb/ft^3	kg/m^3	psi	Mpa	psi	Mpa	psi	Mpa	psi	Mpa	ksi	Gpa	psi	Mpa	psi	Mpa	ksi	Gpa
3/16	4.8	16.0	256	3120	21.51	2850	19.65	1530	10.55	1400	9.65	82	0.56	700	4.83	660	4.55	20	0.14

The above data is based on various sample sizes and is for reference only.

Certified to AMS3715



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