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Nomex Honeycomb Core

Nomex honeycomb is the most common core in aircraft sandwich panels: aramid paper, flame resistant and light.

HexWeb HRH-10 density classes (1/8 in cell)

Designation	Density, lb/ft³	Density, kg/m³ (converted)	Bare compressive, psi typ	Plate shear L, psi typ	Plate shear W, psi typ
HRH-10 - 1/8 - 1.8	1.8	29	105	90	50
HRH-10 - 1/8 - 3.0	3.0	48	300	175	100
HRH-10 - 1/8 - 4.0 (2.5 mil)	4.0	64	520	255	140
HRH-10 - 1/8 - 5.0	5.0	80	700	325	175
HRH-10 - 1/8 - 6.0	6.0	96	1,050	385	200
HRH-10 - 1/8 - 8.0	8.0	128	1,675	480	260
HRH-10 - 1/8 - 9.0	9.0	144	2,000	515	300

Key points

- **One family.** HRH-10 values are typical numbers from one datasheet.
- **Not a substitution table.** The SRM names the core.

SOURCES · Hexcel HexWeb HRH-10 Product Data Sheet · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 7 · AC 43.13-1B, Change 1, Chapter 3, Fiberglass and Plastics

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Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.

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