

Fiberglass/Honeycomb Panel



ACP's Fiberglass/Honeycomb Sandwich Panels are manufactured by bonding a layers of 8oz. 8-harness satin weave fiberglass prepreg to each side of a 1/8" cell, 3 PCF aramid honeycomb core. They are cured with high temperature and under pressure, resulting in fully consolidated fiberglass skins that are completely bonded to the aramid honeycomb core. The resulting constructed panel offers a high strength-to-weight ratio and rigidity-to-weight ratio. They are ideal for applications requiring flat, lightweight and rigid specifications.

Physical Properties

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|-----------------------|---|
| Core Material | 1/8" Cell, 3 PCF Standard Cell Aramid Honeycomb |
| Skin Material | Fiberglass Prepreg Style 7781 |
| Prepreg Resin Content | 44% |

The below technical information is for the stand alone raw materials, not the constructed panel.

Prepreg Neat Resin Properties

| | |
|----------------------------|----------------------------------|
| Specific Gravity | 1.335 |
| Tg dry | 250°F |
| Moisture Absorption | 9.4% |
| Linear CTE | 293 x 10 ⁻⁵ /in/in/°F |
| Tensile Strength | 11.6 ksi |
| Tensile Modulus | 0.47 msi |
| Tensile Strain | 5.2% |
| Fracture Toughness | 1.50 ksi √in |
| Strain Energy Release Rate | 4.18 in-lb/in ² |

Standard Cell Aramid Honeycomb Properties

| | |
|------------------|---------|
| Cell Size | 1/8" |
| Density | 3 PCF |
| Compression | 276 psi |
| L-Shear Strength | 175 psi |
| W-Shear Strength | 88 psi |

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.