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 consolidatedhfiberglass 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

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/in2

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

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