



DragonPlate™
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Material Specifications



Carbon Fiber PP Honeycomb Core

Our lightweight carbon fiber polypropylene honeycomb core is tough and durable resulting in a strong impact resistant laminate. Additional properties also include moisture resistance, energy absorbent and sound and vibration dampening. Each laminate is comprised of our 1/32" quasi-isotropic solid carbon laminated sheets bonded to each side of a polypropylene honeycomb core. Each panel has a textured finish on both sides that is ideal for secondary bonding.

STANDARD CORES

CORE THICKNESS	LAMINATE THICKNESS	CUT SIZE TOLERANCE	ESTIMATED WEIGHT (lbs/ft ²)
7mm	0.35"	+ 0.5" / -0	0.71
13mm	0.56"	+ 0.5" / -0	0.77

Available in Various Sizes

Finish: Textured / Textured

Additional Options

- Custom Sizes
- Custom Laminates
- Custom Thickness
- CNC Machining
- Design and Engineering Services

TECHNICAL SPECIFICATIONS

Properties of Carbon Fiber

Tensile Strength: 512 ksi
 Tensile Modulus: 33.4 Msi

Properties of Honeycomb Core

Compressive Strength : 200 psi
 Compressive Modulus: 2175 psi
 Tensile Strength: 72.5 psi
 Density: 4.8 lb/ft³
 Shear Strength: 70 psi
 Shear Modulus: 725 psi

Lay Up Schedule

3 Layers Plain Weave Carbon Fiber (quasi-isotropic)
 Polypropylene Structural Honeycomb
 3 Layers Plain Weave Carbon Fiber (quasi-isotropic)