



## Carbon Fiber Diviny Cell Foam Core

DragonPlate's carbon fiber Divinycell foam core utilizes Divinycell H100 high performance core. This is a medium density structural foam with very high strength to weight ratio. With high strength properties, this carbon fiber foam core laminate is an excellent choice for heavier duty applications where lighter density foams struggle. Divinycell H100 is also an excellent damage tolerant foam and is ideal for impact applications. Available in gloss, matte or texture on one side and texture on other side for bonding to other surfaces.

# STANDARD CORES

CORE THICKNESS	LAMINATE THICKNESS	CUT SIZE TOLERANCE	estimate	D WEIGHT (Ibs/ft²)*
1/4" ± 0.020 1/2" ± 0.020 1" ± 0.020	~ 0.32" ~ 0.58" ~ 1.06"	+ 0.5"/-0 + 0.5"/-0 + 0.5"/-0	0.61 0.68 0.89	* Weight varies with core density

Available in Various Sizes

Additional Options

**Custom Laminates** 

**Design and Engineering Services** 

**Custom Thickness** 

**CNC** Machining

Custom Sizes

Finish: Textured, gloss, or matte / Textured

# TECHNICAL SPECIFICATIONS

Properties of Carbon Fiber Tensile Strength: Tensile Modulus:

512 ksi 33.4 Msi

### Properties of Divinycell H100 Foam Core

Compressive Strength :	290
Compressive Modulus:	195
Tensile Strength:	500
Tensile Modulus:	188
Density:	6.25
Shear Strength:	232
Shear Modulus:	508

290 psi 19580 psi 500 psi 18855 psi 6.25 lb/ft<sup>3</sup> 232 psi 5080 psi

### Resin

Epoxy resin that accounts for approximately 50% of the composition

 $W_f \approx 50\%$ 

### Lay Up Schedule

3 Layers Plain Weave Carbon Fiber Divinycell H100 Foam 3 Layers Plain Weave Carbon Fiber

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