



DragonPlate™

.com

Material Specifications



Carbon Fiber Depron Foam Core

An inexpensive, non-structural foam core. DragonPlate Depron foam core composites are designed to be extremely lightweight. A Depron carbon fiber foam core laminate has the strength and stiffness of a carbon fiber laminate, but lacks the compressive strength and crushing resistance of a structural foam core. Available in gloss, matte or texture on one side and texture on other side for bonding to other surfaces.

STANDARD CORES

CF LAYERS	CORE THICKNESS	LAMINATE THICKNESS	CUT SIZE TOLERANCE	ESTIMATED WEIGHT (lbs/ft²)*
1 Layer	6mm ± 0.5	~ 0.25"	+ 0.5" / -0	0.16
3 Layers	6mm ± 0.5	~ 0.30"	+ 0.5" / -0	0.42

* Weight varies with core density

Available in Various Sizes

Finish: Textured, gloss, or matte / 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 Depron Foam Core

Density: 2.5 lb/ft³

Resin

Epoxy resin that accounts for approximately 50% of the composition

$W_f \approx 50\%$

Lay Up Schedule (3 Layer)

3 Layers Plain Weave Carbon Fiber
Depron Foam
3 Layers Plain Weave Carbon Fiber

Lay Up Schedule (1 Layer)

1 Layer Plain Weave Carbon Fiber
Depron Foam
1 Layer Plain Weave Carbon Fiber