



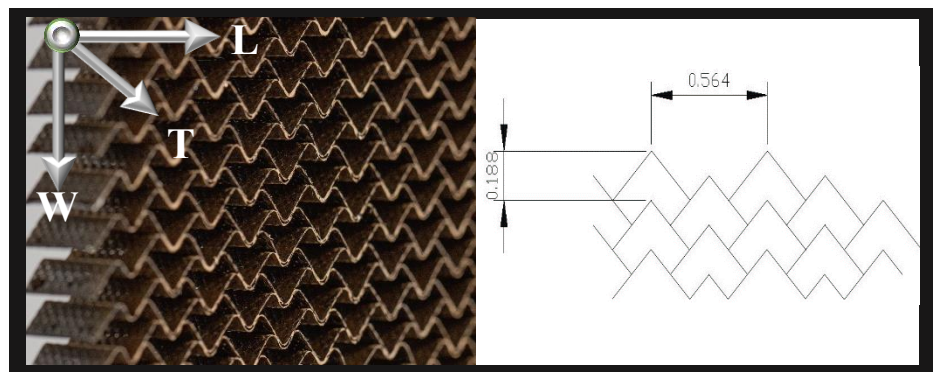
High Performance Carbon Core

PMT-F6E-LT/T300 1K-PW-125, 3/16"EMT
PMT Part No. 800619

A cellular core material for high performance structures.

This medium-density carbon composite cellular core utilizes style - T300 1K-PW carbon fiber fabric and PMT's F6E-LT cyanate ester resin system. Designed for applications that demand the strength of stiffness of carbon fiber, low-moisture uptake, and good elevated temperature performance. Composed of cyanate ester resin and T300-1K carbon fiber fabric, it features a flexible cell geometry that reduces anticlastic curvature when applied to curved part geometries. Gas permeable cell walls eliminate the need for secondary perforation in applications where pressure equalization is a concern. It features PMT's 3/16"EMT cell geometry and has a nominal density of 6.5lbs/ft³.

Size Chart and Geometry



STRENGTH

The unique manufacturing process allows for high strength and modulus at medium densities.

RESILIENCE

The carbon fiber and cyanate ester combination resists moisture creating a stable structure in harsh environments.

FORMABILITY

The unique cellular geometry allows **High Performance Carbon Core** to conform to curved surfaces

Sheet Dimensions	Minimum (in)	Maximum (in)	Tolerance (in)
Thickness (T)	0.125	18	0.005
Length (L)	12	96	0.5
Width (W)	12	48	0.5

Mechanical Properties

Examination or Test	Typical Result**	Test Method
Density	6.5 lb/ft ³	ASTM C271
Glass Transition Temperature (DMA Tg)	662°F	ASTM D7028
Compression Strength*	1,229 psi	ASTM C365
Shear Strength*		
L-Direction	615 psi	ASTM C 273
W-Direction	320 psi	
Shear Modulus*		
L-Direction	107.7 ksi	ASTM C 273
W-Direction	25.6 ksi	
Max. Radius of Curvature*	5"	NA

** Tested at 0.5-inch thickness*

***Properties are nominal and may differ for specific lots*



Manufactured by **Patz Materials and Technologies**
 For custom orders contact Orders@PatzMandT.com