



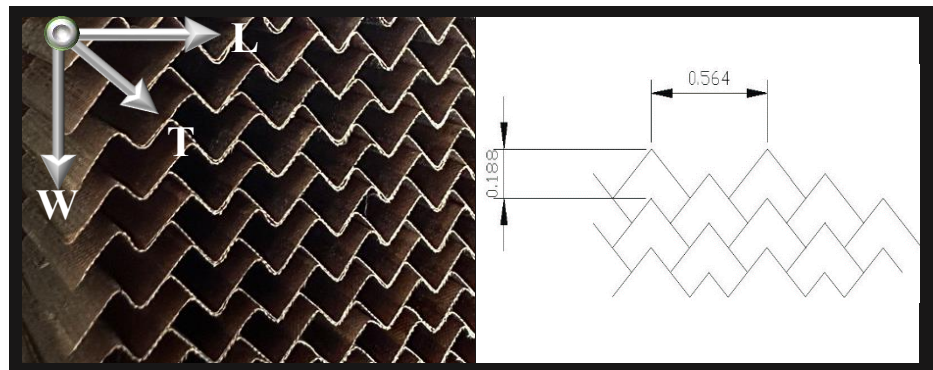
Cyanate Ester Fiberglass Core

PMT-F6E-LT/1080 Glass, 3/16"EMT
PMT Part No. 800603

A cellular core material for high performance structures.

This high-performance, medium-density cellular core utilizes style - 1080 fiberglass fabric and PMT's F6E-LT cyanate ester resin system. This combination yields a tough, heat-resistant cellular core that exceeds the temperature performance of epoxy or phenolic materials. The unique cellular geometry improves the core's drapability and overall flexibility, making it ideal for use in cylindrical or contoured structures. It also features gas-permeable cell-walls for applications that require a vented or pressure-equalized structure. It features PMT's 3/16"EMT cell geometry and has a nominal density of 4.2lbs/ft³.

Size Chart and Geometry



STRENGTH

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

RESILIENCE

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

FORMABILITY

The unique cellular geometry allows **Cyanate Ester Fiberglass Core** to conform to curved surfaces

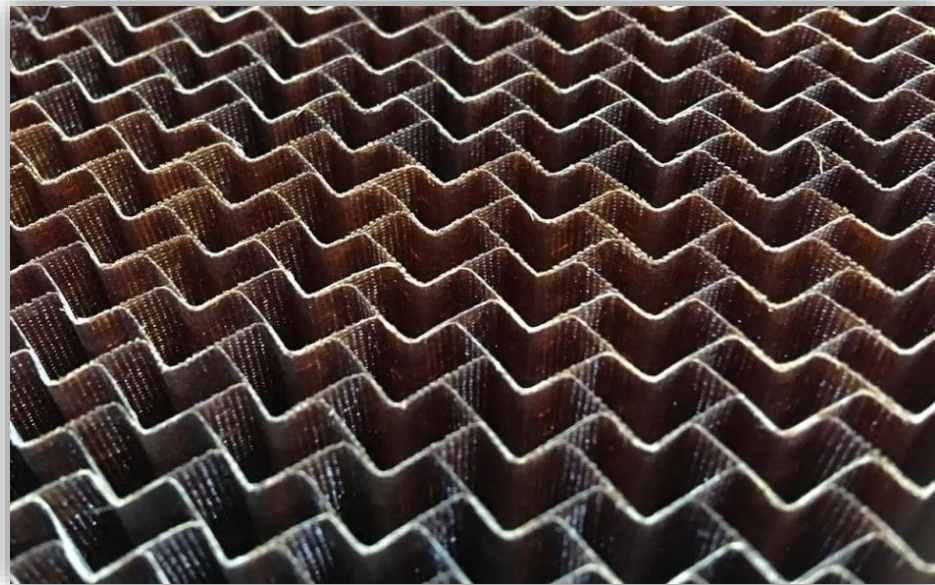
Sheet Dimensions	Minimum (in)	Maximum (in)	Tolerance (in)
Thickness (T)	0.125	18	0.005
Length (L)	12	96	0.5
Width (W)	12	48	0.5

Mechanical Properties

Examination or Test	Typical Result**	Test Method
Density	4.2 lb/ft ³	ASTM C271
Glass Transition Temperature (DMA Tg)	662°F	ASTM D7028
Compression Strength*	320 psi	ASTM C365
Shear Strength*		
L-Direction	166 psi	ASTM C 273
W-Direction	91 psi	
Shear Modulus*		
L-Direction	9.5 ksi	ASTM C 273
W-Direction	3.0 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

