



PMT Carbon/Carbon Cellular Core

Description:

PMT's Carbon Carbon core solutions, takes two of PMT's long time products advanced composite cellular cores and Carbon Carbon Prepreg solutions and marries them together. The Carbon Carbons high temperature at relatively low-density combination makes it a unique solution for high temperature applications.

Applications:

This cellular core material could be the solution to a wide range of applications. Well suited for space, and other high temp applications including hypersonic structures and heat shields.

Carbon/Carbon Core Materials:

Skin Material:

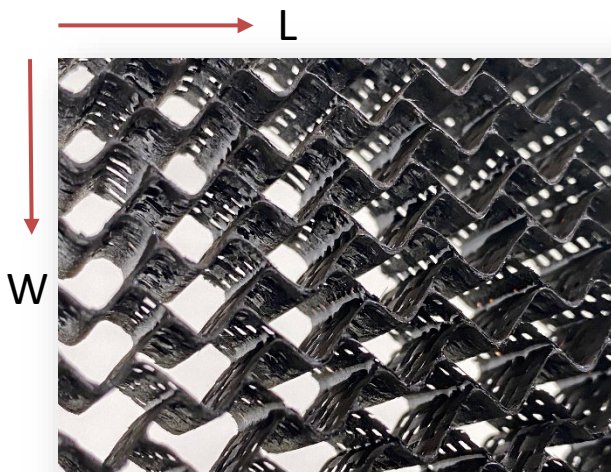
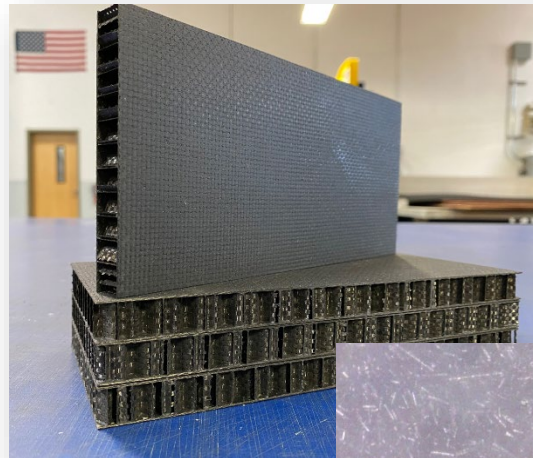
- PMT-F6E-BP/HM63 PW

Core Material:

- PMT-F6E-BP on YSH50-140
- 4.14 pcf density
- Integrated Porosity
- Milled pitch fiber-based node adhesive.

Adhesive:

- Modification of F6E-BP with milled fibers
- Panel Density: 0.24g/cm^3



Other Attributes:

Due to the nature of the open weave of the fabric the core materials are naturally vented, this could also be used to move fluid/air/gas through the structure.