

GRAFOAM® Carbon Foam FPA-05

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GRAFOAM® FPA-05 is a carbon foam product that has a nominal density of 5lb/ft³. The material has unique properties such as high strength and lightweight, and is an excellent thermal insulator at temperatures up to 1000°C.

Typical Applications

- Applications in high temperature and corrosive environments
- Other applications include composite tooling, insulation, fire resistant panels and batteries

Sizes

FPA-05: 6" X 18" X 72"
Other sizes available upon request

<u>Typical Properties at Room Temperature</u>				
	<u>ENGLISH</u>		<u>METRIC</u>	
Bulk Density	lbs/ft ³	5.1	g/cm ³	.081
CTE (30-100°C)	X 10 ⁻⁶ /°F	1.3	X 10 ⁻⁶ /°C	2.3
Specific Resistance (WR)	Ω in.	0.34	μΩm	8723
Specific Resistance (AR)	Ω in.	0.23	μΩm	5801
Flexural Strength (WR)	psi	64	MPa	0.4
Flexural Strength (AR)	psi	140	MPa	1.0
Young's Modulus	psi X 10 ⁶	0.01	GPa	0.10
Compressive Strength (WR)	psi	143	MPa	1.0
Compressive Strength (AR)	psi	83	MPa	0.6
Gas Permeability	Darcy		Darcy	
Apparent Porosity	%	96	%	96
Tensile Strength (WR)	psi	98	MPa	0.67
Tensile Strength (AR)	psi	54	MPa	0.37
Thermal Conductivity (WR) (room temperature)	BTU/hr-ft-°F	0.05	W/mK	0.08
Thermal Conductivity (AR) (room temperature)	BTU/hr-ft-°F	0.04	W/mK	0.07
Shear Strength (torsional)	psi	35	MPa	0.24

Note: It is not recommended that FPA-05 be used in oxidizing atmospheres above 200°C.

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