

Destech Open-Celled Glassy Carbon Foam

Category : Carbon , Other Engineering Material , Composite Core Material

Material Notes:

Destech glassy (vitreous) carbon foam is available in different grades depending on the number of pores per inch (ppi). Standard grades are 10, 45, 100 and 500 ppi. Custom grades are available on a special order basis. Areas of applications include filtration, electrochemical cells, heating elements, electrodes, fuel cells, acoustics, high temp insulation, foam cores. Data provided by the manufacturer, Destech Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Destech-Open-Celled-Glassy-Carbon-Foam.php

Physical Properties	Metric	English	Comments
Bulk Density	0.0190 - 0.390 g/cc	0.000686 - 0.0141 lb/in ³	Dependent on grade.
Density	1.50 g/cc	0.0542 lb/in ³	Ligament density. Dependent on grade.
Open Porosity	>= 90 %	>= 90 %	Closed porosity 0%.

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.300 - 7.00 MPa	43.5 - 1020 psi	Dependent on grade

Thermal Properties	Metric	English	Comments
CTE, linear	1.60 $\mu\text{m}/\text{m}\cdot\text{°C}$	0.889 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.100 - 0.900 W/m-K	0.694 - 6.25 BTU-in/hr-ft ² -°F	Dependent on grade and temperature.
Maximum Service Temperature, Air	300 °C	572 °F	
Maximum Service Temperature, Inert	3000 °C	5430 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0750 ohm-cm	0.0750 ohm-cm	Dependent on grade.

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