

MarkeTech Resorcinol Formaldehyde Aerogel

Category : Ceramic , Aerogel

Material Notes:

Monolithic resorcinol formaldehyde (RF) nanofoams are primarily used as the precursor for carbon nanofoams or when an organic, electrically insulating material is desired. The standard RF nanofoam is offered as a high density material of 0.6 g/cm. Researchers wanting to control the pyrolysis conditions (atmosphere, temperature, time, etc.) during the processing of a carbon nanofoam can begin with RF nanofoam. Monolithic RF nanofoams are available as random pieces 0.2 to 2.0 cm in size. RF nanofoam sheets are formed by impregnating non-woven carbon paper with the RF gel. After processing, the resultant sheet is nominally 0.012" thick and has a density of 0.6 g/cm³. The overall sheet size is 3.5 x 10 cm. Data provided by the supplier, MarkeTech International. Silica and Carbon Aerogels are also listed in MatWeb.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Resorcinol-Formaldehyde-Aerogel.php

Physical Properties	Metric	English	Comments
Density	0.600 g/cc	0.0217 lb/in ³	
Specific Surface Area	600 m ² /g	600 m ² /g	

Mechanical Properties	Metric	English	Comments
Compressive Modulus	0.300 GPa	43.5 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	
	@Temperature 20.0 - 80.0 Å°C	@Temperature 68.0 - 176 Å°F	
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ft ² -Å°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Constant	2.0	2.0	
	@Frequency 1.80e+10 - 4.00e+10 Hz	@Frequency 1.80e+10 - 4.00e+10 Hz	

Descriptive Properties	Value	Comments
Color	Dark Red	

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