



C-STOCK RH

**RoHS
Compliant**

TECHNICAL BULLETIN 210-5

LOW DIELECTRIC CONSTANT, LOW LOSS STRUCTURAL FOAM

C-STOCK RH is a series of rigid Polymethacrylimide foams which will withstand temperatures to 380°F. C-STOCK RH has a high compression and shear strength and a very low dielectric constant and low loss factor. It is easily machined to close tolerances.

C-STOCK RH is useful as a low density, high temperature structural member, as a thermal barrier material, and as an RF window material.

C-STOCK RH may be thermo-formed at temperatures of 325°F to 360°F, and therefore finds significant uses as radome core material.

TYPICAL PROPERTIES

Grade	RH-5	RH-7	RH-10
Density lbs/ft ³ (D1622)	3	4.5	7
Dielectric constant (2-20 GHz)	1.09	1.11	1.14
Dissipation factor (5 GHz)	.0004	.0007	.0009
Compressive strength, psi (D1621)	128	213	427
Shear strength, psi (C273)	114	185	341
Thermal conductivity, Btu-in/ft ² -hr. -°F	0.16	0.22	0.30
Standard sheet size	24 x 24 in.	24 x 24 in.	21.5 x 26.7 in.
Thicknesses available	0.5, 1.0, 2.0 in	0.5, 1.0, 2.0 in	1.9 in.

Thicknesses and sheet sizes other than those listed are available on special order.

The information in this Technical Bulletin, although believed to be accurate, is not to be taken as a warranty for which Cuming Corporation assumes legal responsibility nor as permission or recommendation to practice any patented invention without license. It is offered for verification by the customer, who must make the final judgment of suitability for any application.

Document Control Number: N-01-000-0127-D
12/5/2011 Page 1 of 1