



CUMING MICROWAVE

Technical Bulletin 210-5

**RoHS
Compliant**

C-STOCK RH **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 x 21 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.

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