

C-STOCK™ RH

Low dielectric constant, low loss structural foam



Description

C-STOCK™ RH is a series of rigid Polymethacrylimide foams which will withstand temperatures to 350°F. C-STOCK™ RH has a high compression and shear strength and a very low dielectric constant and low loss dissipation 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.

Availability

C-STOCK™ RH is available in the standard sheet size and thickness listed above and also can be supplied in other sizes, thickness or per customer specified configurations.

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.
Standard thicknesses available	0.125, 0.25, 0.5, 1.0, 2.0 in	0.125, 0.25, 0.5, 1.0, 2.0 in	0.125, 0.25, 0.5, 1.0, 2.0 in

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data.

Cuming Microwave Corporation

Engineered Materials
 264 Bodwell Street
 Avon, MA 02322
 Telephone +1 (508) 521-6700
 Fax +1 (508) 584-2309
www.cumingmicrowave.com
 Made in the USA
 Issue Date: 06/24
 Supersedes: New
 Lit: #4877