



CUMING MICROWAVE

C-FOAM PF-2 and PF-4

RoHS
Compliant

TECHNICAL BULLETIN 210-6

FLEXIBLE, LOW LOSS FOAM

PF-2 and PF-4 are closed-cell low loss flexible foam sheets. These materials have low dielectric constant and low loss tangents, making them ideal for use as dielectric substrates and as weather-proof RF transparent radomes.

As a closed-cell foam, water absorption rates are low. The material is weather resistant, and will not crack or degrade in sunlight.

TYPICAL PROPERTIES

Color: White

Composition: closed-cell low loss foam

Maximum use temperature: 90°C (200°F)

	PF-2	PF-4
Density, g/cm ³ (lb/ft ³):	0.032 (2.0)	0.064 (4.0)

Dielectric Constant:	1.03	1.06
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Loss Tangent:	0.0001	0.0001
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Thermal Conductivity (cal-cm/sec-cm ² -°C):	0.0001	0.00011
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INSTRUCTIONS FOR USE

PF-2 and PF-4 are both very soft materials which can be draped over curved surfaces. They can be readily die-cut or be cut with a sharp razor knife.

Polyethylene is an inherently difficult material to bond to. However, a reasonable bond can be achieved using a solvent-based Polychloroprene contact adhesive. Our customer service department can also make other adhesive recommendations for specific substrates. C-FOAM PF has an indefinite shelf life.

AVAILABILITY

Both PF-2 and PF-4 are available in a standard sheet size of 600 x 600 mm (24 x 24 inches), in the following thicknesses:

PF-2	3.2mm (0.125 inch) 6.4mm (0.250 inch)
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PF-4	1.6mm (0.062 inch) 3.2mm (0.125 inch) 6.4mm (0.250 inch)
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Cuming Microwave can supply PF in other sizes and shapes as well. Specially fabricated and machined parts up to 50 mm thick can also be produced. It may be possible to provide, on special order, other densities with corresponding dielectric and physical properties. Call for details.

PF foam sheets can also be supplied with a peel-and-stick pressure sensitive adhesive specific with a /PSA suffix, e.g., PF-2-.125" /PSA. They can be supplied die-cut to your specifications; send your drawing for a quotation.

The information in this technical bulletin, although believed to be accurate, is not to be taken as a warranty for which Cuming Microwave 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 document.

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