

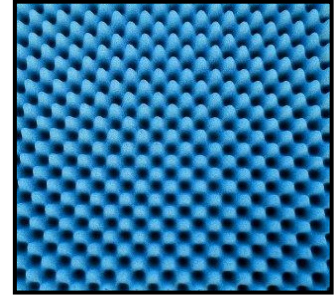


**POLYURETHANE FOAM BASED CONVOLUTED MICROWAVE ABSORBERS**

**(Microwave Absorbent Material -Convolutud Type)**

**FU-CV MICROWAVE ABSORBERS:**

- ❖ A PU Foam based broadband microwave absorber.
- ❖ Almost equally effective at wider angles of incidence as well.
- ❖ Light weight, flexible and easy to cut.
- ❖ Polyurethane foam material (flexible) block having a front surface cut to a convoluted (Egg Carton) shape, dipped in absorbing slurry providing desired electrical grading.
- ❖ Because of the rounded convolutions, and lacking sharp corners and points, FC absorber is the preferred absorber for millimeter wave frequencies, and for very wide incidence angles
- ❖ Standard size is 600 mm X 600 mm. Custom tailored sizes can also be supplied.
- ❖ Standard thickness: 100 mm. Available in different thicknesses.



**TYPICAL REFLECTIVITY PERFORMANCE:**

Absorber Type	Thickness	Reflectivity (dB) at Near Normal Incidence with respect to Metal at frequency.				
		8GHz	10 GHz	30 GHz	50 GHz	80 GHz
FC-4	4 Inches	25GHz	30 dB	30 dB	35 dB	30 dB

**AREAS OF APPLICATION:**

- ❖ Best Suited at millimeter wave frequencies.
- ❖ Most suitable for areas where non-specular/near field scattering is to be minimized.
- ❖ Various camouflaging and interference suppression applications.
- ❖ Used for Low performance Anechoic Chambers in non critical areas.
- ❖ Preferable for Millimeter Wave Anechoic Chambers.
- ❖ Lining the tapered walls of Tapered Anechoic Chambers.
- ❖ Suitable for Low cost Anechoic chambers at frequencies above 8 GHz.



**MATERIAL PROPERTIES:**

- ❖ Colour: As Desired, generally available in blue color.
- ❖ Dimensions: 60 cm X 60 cm.
- ❖ Typical Weight of 60 cm X 60 cm sheet: 1.5 kg.
- ❖ Chemical Composition: Carbon ferrite impregnated polyurethane foam.
- ❖ Maximum service temperature: 90 degree Centigrade
- ❖ Fire Retardency: Passes NRL-8093, USA test 1, 2 & 3 With **Zero Halogen Means**.

**FEATURES:**

- ❖ Our foam absorbers are fire retardant with zero halogen means thereby avoid formation of toxic gases like HCl /HBr and poisonous gases like phosgene.
- ❖ **RoHS** Compliant.