

# POLYURETHANE FOAM BASED CONVOLUTED MICROWAVE ABSORBERS (MICROWAVE ABSORBENT MATERIAL -CONVOLUTED TYPE)



#### **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.

#### **TYPICAL REFLECTIVITY PERFORMANCE:**

Absorber Type	Thickness	Reflectivity (dB) at Near Normal Incidence with respect to Metal at frequency.				
		8 GHz	10 GHz	30 GHz	50 GHz	80 GHz
FC-4	4 Inches	-25 dB	-30 dB	-30 dB	-35 dB	-40 dB
FC-2	2 Inches	-20 dB	-25 dB	-25 dB	-35 dB	-40 dB

#### Sahajanand Laser Technology Ltd.

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### FU-CV CONVOLUTED MICROWAVE ABSORBERS:

- 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, this 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: 45 mm, & 100 mm. Available in different thicknesses.

#### **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.

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# **GLOBAL PRESENCE**





**UT** ١G DEFENCE & AEROSPACE Scribing / Dicing MICRO MACHINING Automations

RF & Microwave Medical Devices Hi-Tech Software Diamond Processing Renewable Energy Cleaning

## **SLTL'S STRENGTH**





CE An ISO 9001:2015 Certified Company

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