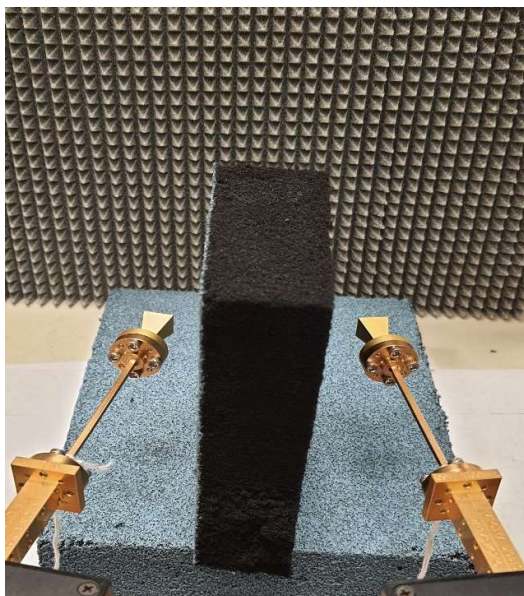


EMC Elektronik uses different materials to provide excellent absorption performance at frequencies from 0.07 GHz to 330 GHz. Sub-Terahertz absorbers are produced with balanced formulate of carbon black and fire-retardant materials in pyramidal shape of polyurethane foam base material. It is ideal to suppress side lobe of antennas and isolate the antennas.

Measured Results of Reflection Loss in dB at UNM Antennas RF Lab										
	Frequency, GHz									
Height (")	10	18	26	33	40	60	90	140	220	330
0.5	4	6	7	9	10	15	20	25	30	30
1	6	10	12	15	17	20	25	30	35	35
2	15	20	23	25	28	30	35	35	35	35
3	25	30	35	38	43	45	45	45	40	40
4	35	38	40	43	45	45	45	45	40	40

Test Setup for 220-330 GHz region



RCS and Antenna Chambers require high absorption performance such as 50 dB from 1 GHz up to millimeter range. To achieve this level a special mixture of carbon black is used on EPP (Expanded Poly Propylene) material for long durability and clean room requirements.



Size
60x60x65 (cm)

Weight
4.5 kg



Measured Reflection Loss
50 dB @ 1 - 330 GHz

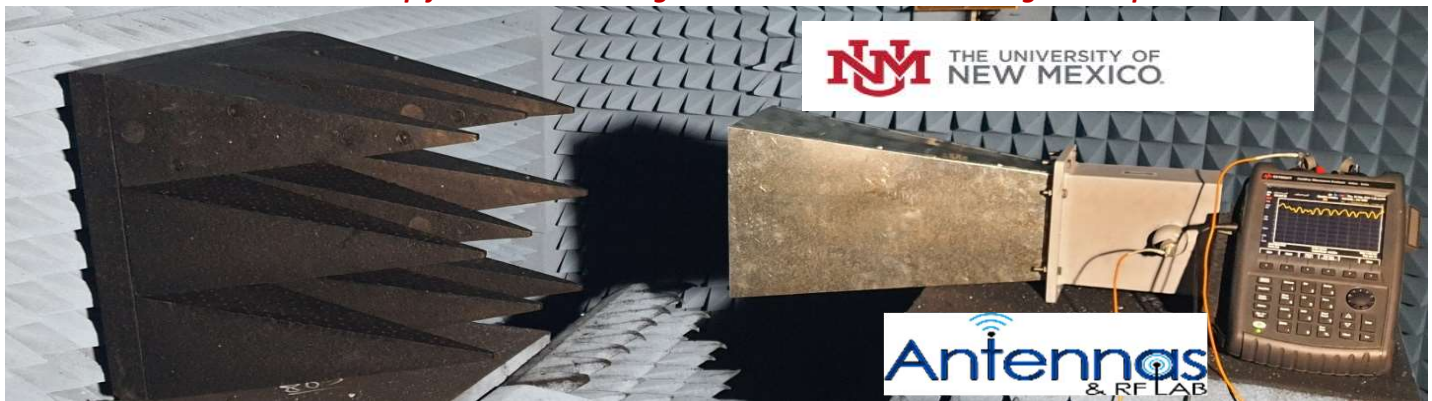
Base Material : EPP (Expanded Poly Propylene)

**HIGH PERFORMANCE
EPP ABSORBER
for
RCS & ANTENNA
CLEAN ROOM**

MODEL

EK606560

Test Setup for 0.9- 1.8 GHz region with Time Domain Gating Technique



Measured Reflection Loss

8 dB @ 70 MHz
17 dB @ 500 MHz
25 dB @ 1000 MHz
25 dB @ 1-18 GHz

Size

30x30x100 (cm)

Weight

1 kg

Base Material :

Glass Fiber & Cardboard

Main Advantages:

- Lightweight
- Lower Volume
- Lower Height
- Fire Retardant

