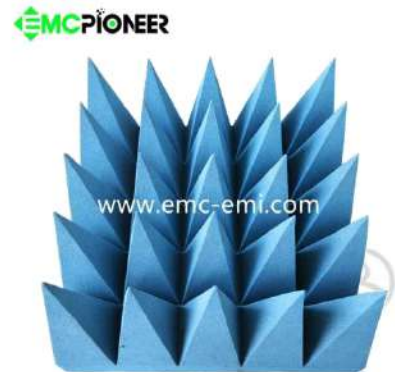
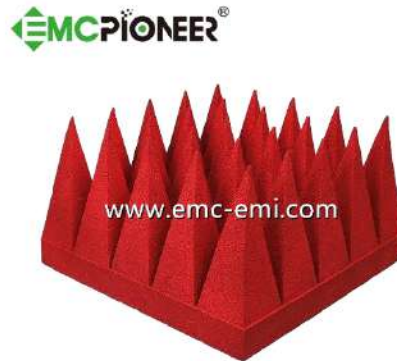
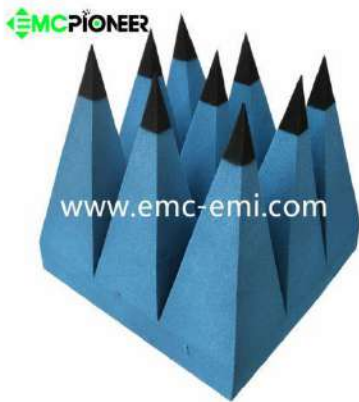


# Pyramidal, Foam Microwave Absorber



## Characteristics

**Basic composition:** Carbon and retardant chemicals loaded polyurethane foam.

**Feature:** The traditional material for anechoic chambers, outstanding absorbing over a wide frequency range, flexible

**Power:** Maximum power handling in watt/square meters, 1KW/M<sup>2</sup>, can reach 1.5KW/M<sup>2</sup> in a short time

### Retardancy:

- 1) NRL report 8093 I, II, and III
- 2) GB 8624-2012 B2 (can customized B1)
- 3) DIN 4102-1 B2
- 4) ISO 11925-2 E
- 5) UL94 HBF

**RoHS:** 2011/65/EU

Amending Directive (EU) 2015/863 Annex II

**Reach:** EC 1907/2006

**Working temperature:** -50°C ~ + 80°C or -85°F ~ 176°F

**Working Frequency:** 80MHz~100GHz

## Availability:

### Standard height:

30,50,100,150,200,300,400,500,700,800,1000

### Base size:

Standard base size is 500x500mm or according to customers' demand

### Color:

Light blue or according to customers' demand (red, gray, orange...)

Coated RF absorber also acceptable.

## Installations:

Generally neoprene contact adhesive is recommended for installation.

Firstly, draw grids according to the base size of applied absorbers.

Then adhesive is brushed on the substrate and wait till it dry to tack-free.

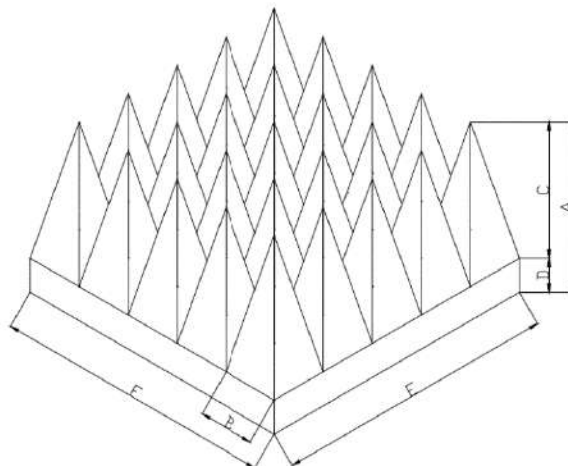
Then apply the adhesive to the back of absorber and wait for a short while.

Finally press absorber onto the substrate.

## Applications:

PE-PY type provides premium performance over a very broad frequency range, hence it is the most widely used in all kinds of anechoic chamber.

Low height of PE-PY type may be used for antenna, radar and test facilities to reduce the surface current and unwanted reflection, indoor use.





## Data sheet

Model Name	Thickness (mm)	Vertical incident maximum reflectivity $R_w$ (-dB) at specific frequency (GHz)									
		40	15	10	5	3	1.5	0.5	0.3	0.2	0.1
PE-PY-30	30	30	28	25	15	15					
PE-PY-50	50	40	35	30	25	20					
PE-PY-70	70	45	40	35	30	25					
PE-PY-100	100	50	45	40	35	30	15				
PE-PY-150	150	50	50	45	40	35	20				
PE-PY-200	200	50	50	50	45	38	28	15			
PE-PY-300	300	60	55	55	45	40	30	20			
PE-PY-400	400	60	60	55	50	42	32	25	17		
PE-PY-500	500	60	60	60	50	45	35	28	20	17	
PE-PY-600	600	60	60	60	52	48	37	30	22	18	
PE-PY-700	700	60	60	60	55	50	40	30	25	20	12
PE-PY-800	800	60	60	60	55	52	40	35	30	20	13
PE-PY-1000	1000	60	60	60	60	55	45	37	32	27	15
PE-PY-1200	1200	60	60	60	60	60	48	40	35	30	17

## Physical and Electrical Property

Model Name	Base Size F(mm)	Number of Pyramidal	Weight (Kg/m <sup>2</sup> )	Total Height A(mm)	Base Height D(mm)	Pyramidal Height C(mm)	Pyramidal Width B(mm)
PE-PY-30	500*500	36*36	1.2	30	15	15	14
PE-PY-50	500*500	20*20	1.8	50	20	30	25
PE-PY-70	500*500	20*20	2.5	70	20	50	25
PE-PY-100	500*500	14*14	3.2	100	25	75	38
PE-PY-150	500*500	9*9	4.2	150	30	120	56
PE-PY-200	500*500	7*7	5.5	200	40	160	71
PE-PY-300	500*500	5*5	8.3	300	60	240	100
PE-PY-400	500*500	4*4	10.6	400	70	330	125
PE-PY-500	500*500	3*3	13	500	80	420	167
PE-PY-700	500*250	1*2	17.7	700	100	600	250
PE-PY-800	500*250	1*2	19.6	800	100	700	250
PE-PY-1000	334*334	1*1	25.5	1000	150	850	334

\* Coated RF absorber also acceptable.

Coated absorber for indoor use is PE-PY-XXCI; Coated absorber for outdoor use is PE-PY-XXWP