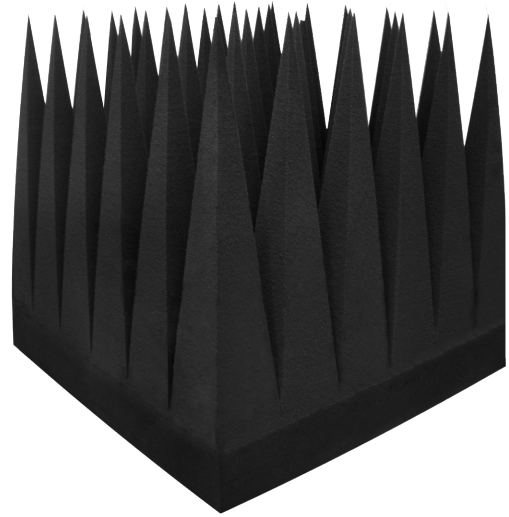


## Features:

- Performs from 200 MHz – > 40 GHz
- 1.2 W/in<sup>2</sup> Continuous Wave Power Density Capability
- Non-Hygroscopic Substrate
- 125° C (250° F) Maximum Service Temperature
- Fire Retardant
  - NRL 8093 Tests 1, 2 & 3
  - MIT MS-8-21
  - UL 94
  - DIN 4102-B2



ETS-Lindgren's EHP-24PCL-6x6  
Microwave Pyramidal Absorber

### **ETS-Lindgren's EHP-24PCL-6x6 Microwave Pyramidal Absorber**

is an ultra-broadband microwave absorber recommended for areas where electromagnetic energy needs to be attenuated.

Generally, pyramidal absorber is preferred for specular treatment on chamber back walls, side walls, floors, and ceilings.

Applications include military, automotive, and wireless measurement.

In contrast to conventional absorber profiles, EHP-24PCL-6x6 is designed with a slim pyramidal shape. This shape improves heat exchanges with the surrounding environment, allowing the EHP-24PCL-6x6 to withstand higher incident power density.

### **FEATURES Broadband Performance**

EHP Series absorber is designed to provide excellent RF attenuation over its usable frequency range.

### **Power Handling Capability**

EHP Series absorber can safely perform in environments that generate field strengths up to 850 V/m CW (1.2 W/in<sup>2</sup> CW power density) with operating temperatures up to 125° C (250° F). The EHP Series absorber can withstand the peak power 1.6 W/in<sup>2</sup> under room temperature with forced air of 80 foot/min, or the peak power of 1.6 W/in<sup>2</sup> for 15 minutes without forced air.

### **Non-Hygroscopic Substrate**

ETS-Lindgren absorbers use a new fire-retardant chemical formula that is non-hygroscopic. As a result, the absorber is not affected by moisture and will maintain its mechanical and RF performance over the life of the product.

### **Tested Performance**

EHP Series absorber is tested for reflectivity performance using the Naval Research Lab (NRL) broadband swept frequency arch method.

### **Fire Retardancy**

EHP Series absorber meets applicable US government and commercial flammability specifications as verified by an independent testing laboratory.

## Electrical Properties

FREQUENCY/BAND	TYPICAL REFLECTIVITY	GUARANTEED REFLECTIVITY
200 MHz	<-20 dB	-20 dB
300 MHz	<-32 dB	-30 dB
500 MHz	<-37 dB	-35 dB
1 - 2 GHz / L-Band	<-43 dB	-40 dB
2 - 4 GHz / S-Band	<-55 dB	-50 dB
4 - 8 GHz / C-Band	<-55 dB	-50 dB
8 - 12 GHz / X-Band	<-55 dB	-50 dB
12 - 18 GHz / Ku-Band	<-55 dB	-50 dB
18 - 40 GHz / K- Band	<-50 dB	-50 dB

## Physical Properties

MODEL #	OVERALL HEIGHT	BASE HEIGHT	PYRAMID HEIGHT	PYRAMID BASE	TOTAL BASE	WEIGHT
EHP-24PCL-6x6	61.0 cm (24")	10.2 cm (4")	50.8 cm (20")	10.1 cm x 10.1 cm (4" X 4")	61.0 cm x 61.0 cm (24" x 24")	4.8 kg (10.5 lbs)