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**Product
Bulletin**

700-01

MICROSORB MTPY Pyramidal Absorbers

The **MTPY-4** to **MTPY-48** absorbing materials are based upon a conventional pyramid having a square base with a uniform base thickness, tapered to a point. This design has been established to ensure that complete impregnation with the dielectric lossy material and the fire retardant chemicals are achieved.

The standard material size is 2' x 2'. The broadband pyramidal absorber is manufactured in two basic geometrics, depending upon size and performance requirements; Conventional pyramid and twisted 45.

MICROSORB MTPY is a fire retardant absorber. We meet the following U.S. Government and commercial flammability specifications, as verified by an independent testing laboratory:

- NRL report 8093 (Tests 1, 2, and 3)
- MIT Lincoln Laboratory specification MS-8-21 (Tests I, II, and III)
- UL 94-5VA and UL 94-5VB
- UL 94 HBF
- DIN 4102 Class B-2

APPLICATION

Instructions for Use :

MICROSORB MTPY absorbers are typically bonded to metallic surfaces using either contact adhesives, Velcro fasteners are also available. Velcro fasteners should only be used on grades up to MTPY-18.

Pieces to cover the floor may simply be put into place, or may be bonded to the surface. The material is designed for indoor use only.

Other types of anechoic chamber absorbers and Custom pieces are available. They include but limited to:

- √ Mitre cuts
- √ Walkway absorber
- √ Vent absorber
- √ High Power

Please specify on RFQ which type and quantity.



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ABSORPTION PROPERTIES

Grade	Thickness (Inches)	Pyramids/ Block	Absorption at Normal Incidence (dB/in)								Power (Watts /in ²)	Weight (lbs)
			125 MHz	250 MHz	500 MHz	1.0 GHz	3.0 GHz	6.0 GHz	10.0 GHz	15 GHz		
MTPY-4	4	144					30	35	40	45	0.5	3.0
MTPY-6	6	64					33	37	40	50	0.5	3.5
MTPY-8	8	64				30	37	45	50	50	0.5	4.5
MTPY-12	12	36				35	40	45	50	50	0.5	6.0
MTPY-18	18	16			30	37	45	50	50	50	0.5	12.0
MTPY-24	24	9		30	35	40	45	50	50	50	0.5	17.0
MTPY-36	36	4		32	37	42	50	50	50	50	0.5	24.0
MTPY-48	48	4	28	35	40	45	50	50	50	50	0.5	38.0
MTPY-72	72	1	33	37	43	48	50	50	50	50	0.5	50.0

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