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**Product**  
**Bulletin**

**700-01**

**MICROSORB MTPY**  
**Pyramidal Broad-Band Absorbers**

**GENERAL DESCRIPTION**

**MICROSORB MTPY-2 to MTPY-48**

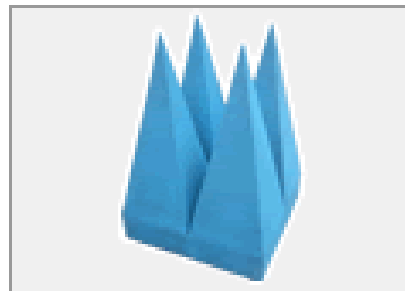
absorbing materials are based upon a conventional pyramid having a square base with a uniform base thickness, tapered to a point. This design has been established to ensure that complete impregnation with the dielectric lossy material and the fire retardant chemicals are achieved.

The standard material size is 24" x 24" (60.96 x 60.96 cm). The broad-band pyramidal absorber is manufactured in two (2) basic geometrics depending upon size and performance requirements: conventional pyramidal design and a twisted 45° pyramid.

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

- NRL Report 8093, Tests 1,2, 3
- MIT Lincoln Laboratory Specifications MS-8-21, Tests 1,2, 3
- UL 94-5VA and UL-94-5B
- UL 94 HBF
- DIN 4102 Class B-2

When sending an RFQ, please send either type of absorber and quantity or a facility or test specification so we may provide the best design and price proposal to you.



**APPLICATION**

**MICROSORB MTPY** absorbers are typically installed bonded to metallic surfaces using either contact adhesives or Velcro® fasteners. Velcro® fasteners should only be used for sizes up to 18" (45.7 cm).

Pieces to cover the floor may be simply put into place or may be bonded to the surface.

Walk-Way absorber is available for providing access to equipment without removing floor absorber. Please refer to Data Sheet No. 700-04 for information on **MICROSORB MTPY-WW**.

**Microsorb Technologies, Inc** offers other types of anechoic chamber absorbers, custom pieces and services. The services include, but not limited to:

- Mitre Cuts
- Walk-Way Absorber
- Vent Absorber
- High Power Absorber
- EMI Foil Shielding with PSA backing
- Engineering & Design of custom test facilities to meet your requirements.

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.

Rev4 091807



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## ABSORPTION PROPERTIES

Grade	Thickness In (cm)	Pyramids/ Block	Absorption at Normal Incidence (dB/in)										Power (watts <sup>2</sup> /in <sup>2</sup> )	Weight lbs (kg)
			Frequency, GHz	0.125	0.250	0.500	1.0	3.0	6.0	10.0	18	36		
<b>MTPY-2</b>	2.20 (5.6)	1024						30	40	45	50	50	0.5	2.6 (1.2)
<b>MTPY-4</b>	4 (10.16)	144					30	35	40	50	50	50	0.5	3.0 (1.36)
<b>MTPY-6</b>	6 (15.24)	64					33	37	40	50	50	50	0.5	3.5 (1.59)
<b>MTPY-8</b>	8 (20.32)	64				30	37	45	50	50	50	50	0.5	4.5 (2.04)
<b>MTPY-12</b>	12 (30.48)	36				35	40	45	50	50	50	50	0.5	6.0 (2.7)
<b>MTPY-18</b>	18 (45.72)	16			30	37	45	50	50	50	50	50	0.5	12.0 (5.4)
<b>MTPY-24</b>	24 (60.96)	9		30	35	40	45	50	50	50	50	50	0.5	17.0 (7.7)
<b>MTPY-36</b>	36 (91.44)	4		32	37	42	50	50	50	50	50	50	0.5	24.0 (10.9)
<b>MTPY-48</b>	48 (121.92)	4	28	35	40	45	50	50	50	50	50	50	0.5	38.0 (17.3)
<b>MTPY-72</b>	72 (182.88)	1	33	37	43	48	50	50	50	50	50	50	0.5	50.0 (22.7)

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