

DIAMOND  
MICROWAVE  
CHAMBERS LTD



POLYURETHANE

# MICROWAVE ABSORBERS

- » Premium Quality
- » Excellent Performance
- » Multiple Color Options

////// [www.dmcraf.com](http://www.dmcraf.com)

FOR ANTENNA TEST CHAMBERS

High performance  
Microwave absorbers for  
Wireless, Antenna, RADAR,  
Radome test chambers with  
wide frequency range of  
operation from 80 MHz to  
100 GHz

## DMC-PU-PY-MI

DMC premium quality high performance Polyurethane Microwave Absorbers are made of carbon impregnated polyurethane foam. DMC-PU-PY-MI series microwave absorbers provides excellent performance in normal incidence and off angle incidence in Antenna test chambers.

## FEATURES

- Broadband Frequency Range of Operation from 80 MHz to 100 GHz
- Designed for Mil-STD-461 D/E/F and RTCA-DO-160 testing
- Power Handling Capacity of 1.5 kW/m<sup>2</sup>, 540 V/m CW Radiated Field Strength
- Fire Retardant as per NRL-8093 tests 1, 2, 3, UL 94 and DIN4102-B2
- Continuous Working Temperature of up to 90°
- Made of Environment friendly raw material. It does not emit toxic gas
- Almost zero carbon dust, clean test site and very Low Maintenance required
- Long product life with excellent Electrical Performance

### TYPICAL REFLECTIVITY AT NORMAL INCIDENCE OVER FREQUENCY RANGE IN -dB

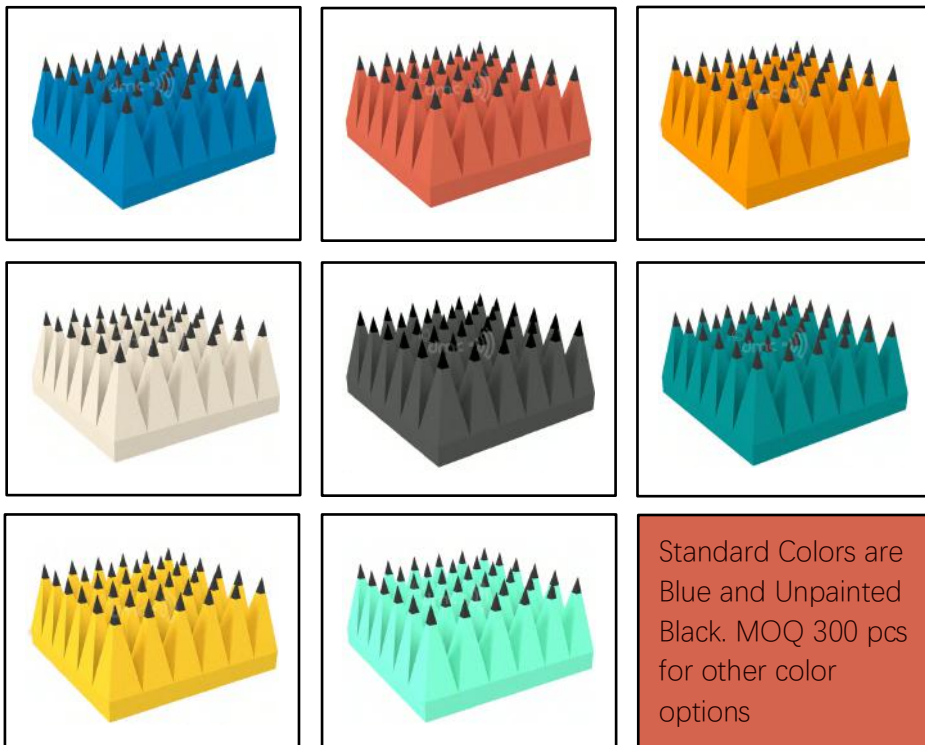
Model Number	30 MHz	80 MHz	300 MHz	500 MHz	1 GHz	3 GHz	6 GHz	10 GHz	18 GHz	40 GHz	100 GHz
DMC-PU-PY-MI-50							30	35	40	50	45
DMC-PU-PY-MI-100						30	35	40	45	50	45
DMC-PU-PY-MI-200					27	35	40	45	50	50	48
DMC-PU-PY-MI-300				25	35	40	50	50	50	50	47
DMC-PU-PY-MI-500			20	30	40	45	50	50	50	50	48
DMC-PU-PY-MI-700		8	25	35	40	50	50	50	50	50	48
DMC-PU-PY-MI-1000		11	30	40	45	50	50	50	50	50	47
DMC-PU-PY-MI-1200	5	13	35	40	45	50	50	50	50	50	47

### PHYSICAL PROPERTIES(in mm)

Model Number	Overall Width	Overall Height	Base Thickness	Tip Base Width	No of Tips	Overall Weight in KG
DMC-PU-PY-MI-50	600 x 600	50	10	20	900	0.54
DMC-PU-PY-MI-100	600 x 600	100	20	36	225	0.79
DMC-PU-PY-MI-200	600 x 600	200	50	65	81	1.44
DMC-PU-PY-MI-300	600 x 600	300	60	100	36	2.52
DMC-PU-PY-MI-500	600 x 600	500	65	145	16	3.96
DMC-PU-PY-MI-700	600 x 600	700	130	195	9	5.76
DMC-PU-PY-MI-1000	300 x 300	1000	150	300	1	1.98
DMC-PU-PY-MI-1200	400 x 400	1200	200	400	1	4.00

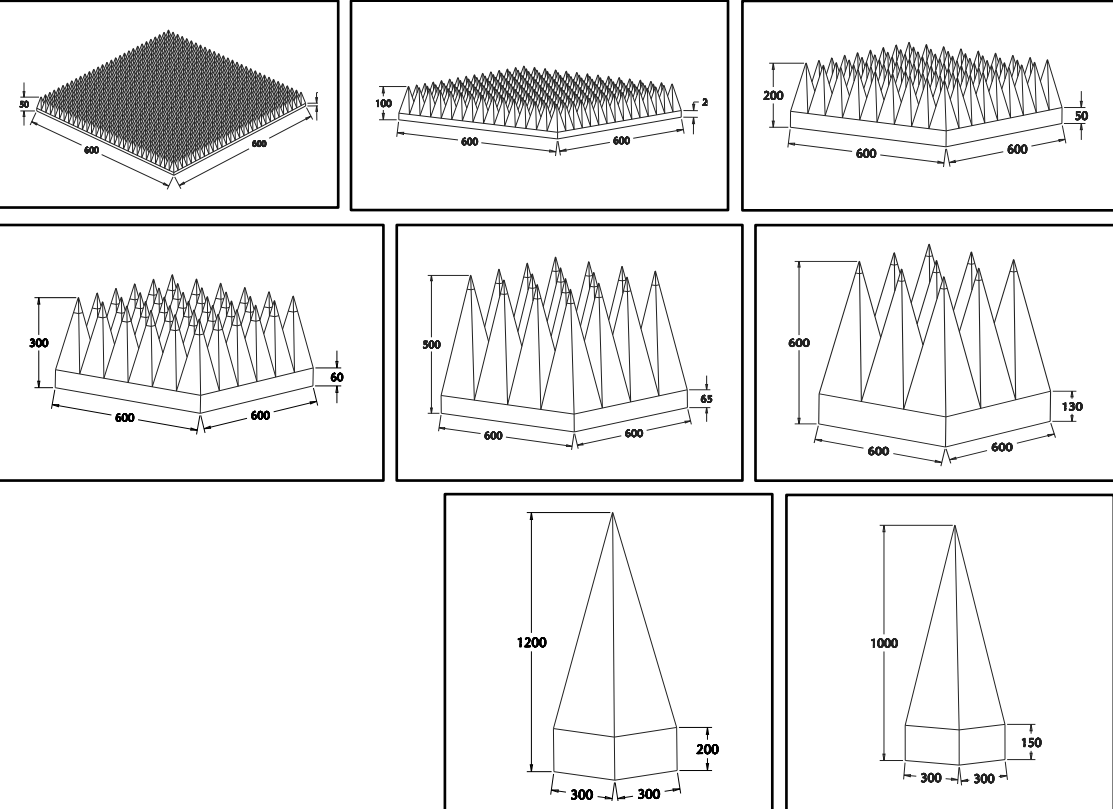
Values shown are based on testing of laboratory test product and represent data that falls within normal range purposes. Construction standards and absorber mounting procedure defines accurate results. The given information is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we don't warrant the results to be obtained.

# COLOR OPTIONS



Standard Colors are Blue and Unpainted Black. MOQ 300 pcs for other color options

# DIMENSIONS



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