

Constantly seeking better ways to be the best®



Milcoustic

Milcoustic is an acoustically superior polyether foam with a UV stable polyurethane facing. The standard Milcoustic product has a black polyurethane film facing to provide both acoustic enhancement as well as a deterrent for airborne dirt, lint, mild chemicals, petroleum products or water mist. This product has been developed to provide the best overall acoustic properties (NRC-Noise Reduction Coefficient) possible while also achieving high flammability standards. Milcoustic recently passed flame testing and is UL listed under UL 2200 and UL 746C for engine generator enclosures and electrical equipment.



TYPICAL APPLICATIONS:

- Acoustic Panels
- Generator Enclosures
- Pump, Compressor and Other Mechanical Equipment Enclosures •
- HVAC Equipment
- Industrial Machinery and Equipment

Milcoustic comes in a variety of:

- Colors
- Thicknesses
- Sizes
- Sheets
- Rolls

Sound Absorption Report of 1" Milcoustic

Typical Physical Properties Test Method

ASTM-D3574

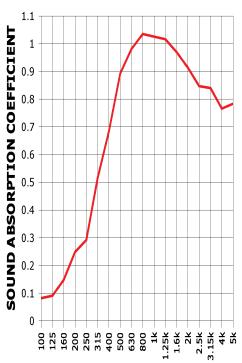
ASTM-D3574

Typical Results: U.S. Standard

 $1.80 \pm 10\%$ lbs./ft.³

Min: 12.0 psi

SOUND ABSORPTION REPORT



Sound Absorption Aver Noise Reduction Coeffice

Test Method:

	rensite strength	1131WI-D3374	Average: 25.0 psi
	Elongation	ASTM-D3574	Min: 140% Average: 250%
	Indentation Force Deflection 25% Deflection 65% Deflection	ASTM-D3574	Min: 30 lbs./50 in. ² (25%) Average: 40 lbs./50 in. ² (25%) Min: 50 lbs./50 in. ² (65%) Average: 70 lbs./50 in. ² (65%)
	Retention of Tensile Strength after 5 hours, 120°C, Steam Autoclave	ASTM-D3574	Min: 70%
	Retention of Tensile Strength after 22 hours, 140°C, Dry Heat Aging	ASTM-D3574	Min: 70%
	Flammability	FMVSS 302	Pass
	Flammability	UL 94	Meets UL94 HF1
LEEMENCA (HZ) 250 250 250 315 400 630 800 1.254 1.254 3.154 4.4 4.4 5.5	Flammability	UL 2200 UL 746C	Pass Pass Milcoustic-025A3, Milcoustic-025-A5, Milcoustic-025-A5LE, Milcoustic-600-A3, Milcoustic-600A5, Milcoustic-600-A5LE
ption Average (SAA) = 0.78 ion Coefficient (NRC) = 0.80	Antimicrobial Testing	ASTM G21	Pass, Rating: 0
Method: ASTM C423-09			
Absorption Total Absorption	n 1/3 Octave	Absorption	Total Absorption

Physical Property

Density

Tensile Strength

1/3 Octave Center Freq. (Hz)	Absorption Coefficient	Total Absorption (Sabins)
32	-0.02	-1.76
40	0.03	2.35
50	-0.03	-2.04
63	0.01	0.94
80	0.04	2.90
100	0.08	5.84
125	0.09	6.48
160	0.15	10.57
200	0.25	17.72
250	0.29	20.85
315	0.51	36.71
400	0.68	48.84
500	0.89	63.67

Center Freq. (Hz)	Coefficient	Total Absorption (Sabins)
630	0.98	70.03
800	1.03	73.88
1000	1.02	73.18
1250	1.02	72.54
1600	0.97	69.20
2000	0.91	65.18
2500	0.85	60.44
3150	0.84	59.94
4000	0.77	54.65
5000	0.78	55.93
6300	0.80	56.83
8000	0.76	53.95
10000	0.60	42.89
12500	0.56	39.68

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