

## **DESCRIPTION/SPECIFICATIONS**

RPR Products 1 # Mass Filled Vinyl (MFV) is a lead free, limp, dense filled (barium sulfate) vinyl polymer, direct blended and compounded, then formed through an extruded manufacturing process.

1 # MFV is supplied 36" wide in both rolled and sheet form.

## **APPLICATIONS**

1 # Mass Filled Vinyl (MFV) has been utilized by design engineers along with fibrous and cellular insulation(s) as an effective treatment in reducing industrial and commercial noise sources such as:

- Equipment
- Piping
- Ductwork
- Vibration and damping treatment
- Other Noise control applications

Increased noise reduction can be achieved using multiple layers.



## **SOUND DEADENING ACOUSTICAL MEASUREMENTS**

- Absorption – Noise Reduction Coefficient (NRC)
  - Tests the ability of an insulation material to absorb incident sound waves
  - Non-absorbed sound is transferred through material
- Sound Transmission Loss – Sound Transmission Class (STC)
  - Tests the ability of insulation material to block sound waves
  - Purpose is to minimize transfer from one space to another
- Damping – Material Loss Coefficient (MLC)
  - Tests the ability of material to absorb vibration (mechanical or sound) and then dissipate the energy within the material into heat

Acoustical Pipe & Duct Sound Deadening

**SOUND TRANSMISSION LOSS (STL) per ASTM E90 (90A)**

Results listed below for typical 1lb. with foil barrier

	db Frequency Hz					
	125	250	500	1000	2000	4000
STL (dB)	13	17	22	26	32	37

Physical Properties of Material

Typical 1 # MFV with Foil Backing

- Service Temperature – (-20)° F to 180° F
- Tensile – 600 PSI minimum
- Elongation – 125% minimum
- Hardness – 80 +/- 5 Shore a Durometer
- Flammability UL94 (Meets HF)  
 FMVSS302

Test Method

- Astm - D412
- Astm - D412
- Astm - D2240
- Pass
- Self-extinguishing