



SOUNDX™ Flexible Acoustic Barrier Sheet

PRODUCT DESCRIPTION

SoundX™ flexible sheets are used for sound abatement in a variety of applications. The high specific gravity of these mass-loaded sheets absorbs sound waves and prevents transmission of sound. SoundX sheet is available in several stock formulations that will meet your needs or we can work with you to create customized formulations to meet OEM specifications. SoundX materials are available as:

- **SoundX EVA** – a non-PVC solution primarily used in the Transportation market
- **SoundX 100** – a non-barium and self-extinguishing PVC-based solution for Building & Construction or Industrial applications

VALUE SOLUTION

Effectively reduce noise while increasing production efficiency.

From wheel wells to cab roofs, unwanted noise can negatively impact the end-user experience. SoundX flexible sheet solutions diminish sound in end-use applications and can also help grow the bottom-line during production because customized sheet sizes or rollstock lengths can reduce scrap and optimize shipping and handling. Other types of customization are possible, such as differentiating products using custom colors and finishes as well as customized formulations to meet transportation OEM specifications and/or operate in specialized thermoforming processes.

SOUND ABATEMENT PROPERTIES

SoundX EVA and **SoundX 100** meet or exceeded the predicted sound reduction as calculated by the limp mass law:

$$dB = 20 * \log (f * m) - 33 \text{ (where } f = \text{frequency in Hz and } m = \text{mass in lb/SF)}$$

This should provide the sound engineer confidence that the SoundX products should provide the anticipated component sound reduction.

KEY CHARACTERISTICS

- Mass-loaded flexible sheet provides effective sound abatement
- Available as PVC-based SoundX 100 or non-PVC SoundX EVA acoustical barrier sheets
- Easy to fabricate in a wide range of processes
- Easily cut on-site with standard tools and equipment
- Custom sheet and rollstock widths and lengths, gauges or basis weights (see chart for capabilities)
- Meets FMVSS 302, can also meet UL HB
- Reliable for RoHS-compliant solutions
- Customizable formulations to meet transportation OEM material specifications
- Customized formulations to meet specialized thermoforming processes

Call 800-677-4338 or email marketing@spartech.com to order these products.

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TARGET MARKET AND APPLICATIONS

SoundX solutions are formulated for use in a range of applications in the transportation industry, including:

- Automotive sub-flooring and interior cabin walls
- Agricultural equipment roof pans and sub-flooring
- Marine and RV sub-flooring
- Heavy and medium truck driver and sleeper cabin sub-flooring
- Specialty vehicle dash liners

SPECIFIC CAPABILITIES FOR SOUNDX 100 AND SOUNDX EVA:

SoundX 100 – Highly mineral filled, flexible PVC sheet with a 1.95 g/cc density

- FR – capable of meeting UL94 HB & FMVSS 302 (self extinguishing)
- Flexible to -4° F (wrap around a 1" mandrel), service temp -20° F to 150° F
- Die cut or shallow draw thermoformable (230° to 250° F starting temps)
- Easy to adhere with water based and hot melt adhesives

SoundX EVA – Highly mineral filled, flexible EVA sheet with a 1.95 g/cc density

- FR – capable of meeting FMVSS 302 (approx. burn rate of 50 mm/min)
- Flexible to -20F (wrap around a 1" mandrel), service temp -20° F to 150° F
- Die cut or shallow draw thermoformable (210° to 230° F starting temps)
- Easy to adhere with water based and hot melt adhesives

CAPABILITIES		
Gauge Capability	Gauge Minimum: 0.0400" (0.4 lb/SF)	Gauge Maximum: 0.200" (2 lb/SF)
Sheet Width Capability	Width Minimum: 24"	Width Maximum: 60" < 0.150" / 54" > 0.150"
Sheet Length Capability	Length Minimum: 36"	Length Maximum: 130"
Roll Width Capability	Width Minimum: 24"	Width Maximum: 60" < 0.150" / 54" > 0.150"
Roll Length Capability	Length Minimum: 25 LF	Length Maximum: 400 LF < 0.150" / 125" > 0.150"

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