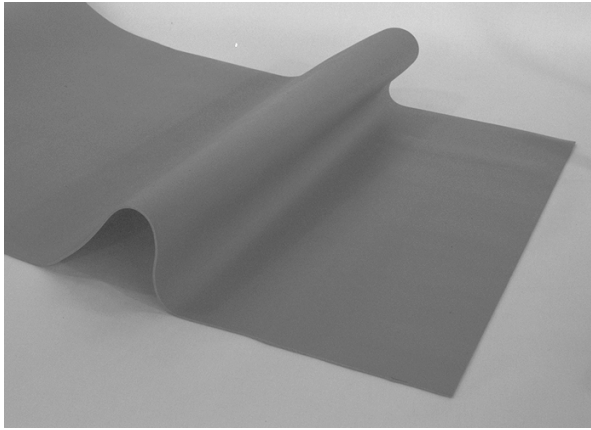


Flexible Noise Barriers



Soper's flexible noise barrier material is a limp, tough vinyl. It is loaded with non-lead fillers and reinforced with high-strength fabric. Barrier materials resist the passage of sound waves and reduce noise transmission.

Applications:

Flexible noise barrier materials are used for retractable curtain partitions, pipe and duct noise lagging, machinery covers, wall and door septums, ceiling noise barrier and other applications. They are available in a standard weight of 1 lb./sq.ft., with an acoustical STC rating of 31. Higher STC levels can be achieved by using multiple layers of material, following the limp-mass law principle of noise transmission.

Features:

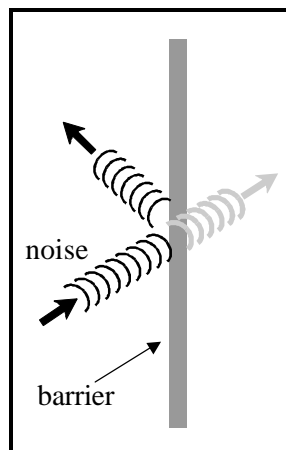
- Soper's barrier materials are tough and have a high tear and tensile strength.
- They will not rot, shrink, or cause metal corrosion.
- They are manufactured from safe, non-toxic materials and contain no asbestos.
- They are easily installed by any maintenance crew. Modifications can be made on site using a razor knife or scissors.

Specifications:

Soper's barrier materials have a continuous operating temperature range from -40°F to 225°F . They are resistant to water, oils, weak acids, alkalis and fungi, and they also have excellent weather resistance.

Caution!!:

The use of barriers can elevate the dB level on the noise source side of the installation. Where this is a problem, an acoustical absorber should be used in conjunction with the barrier. One of our representatives can suggest the best configuration for your application.



Acoustical Data:

Product No.	Noise Transmission Loss (dB) Frequency (Hz)						
	125	250	500	1000	2000	4000	STC
**VB-N 1lb .120" clear PVC	13	17	22	26	32	37	26
**VB-R 1lb or	13	17	22	26	32	37	26
* Clear .080" ½ lb	8	13	17	22	27	31	20

** Non reinforced materials.

* Transparent for light and safety. Also available in tinted colours for UV/welding flash.

Physical Properties:

Reinforced Barriers:

Product No.	Weight Lb./sq.ft.	Thickness mm (in.)	Breaking Strength Kg/cm (lb./in.)		Tear Strength Kg/cm (lb.in.)		Flammability	
			Warp	Fill	Warp	Fill	UL-94V	MVS-302
VB-R	1.0	2.29 (.090)	28.6 (160)	21.5 (120)	8.1 (45)	5.4 (30)	Meets VO	Pass

Non-Reinforced Barriers:

Product No.	Weight Lb./sq.ft	Thickness mm (in.)	Tensile Strength kPa (psi)	Ultimate Elongation (%)	Tear Strength Kg/cm (lb.in.)	Flame Spread (in/min)
VB-N	1.0	2.0 (.080)	2750 (400)	200	12.5 (70)	SE "O"
Clear .080"	.56	2.0 (.080)	2500 (362)	350	53.5 (300)	

Ordering Data:

Product No.	Flexible Noise Barriers Product Description	Thickness mm (in.)	Roll Width	Roll Length
VB-R 1 lb. PSF	Limp, tough, high temperature-fused vinyl, loaded with non-lead fillers and reinforced with high strength fabric. Ideal for suspended curtain partitions. Grey in colour.	2.29 (.090)	1372mm (54 in.)	18.3 m (20 yd.)
VB-N 1 lb. PSF	Limp, tough, high temperature-fused vinyl, loaded with non-lead fillers. Ideal in applications where material is fixed to a framework with staples or other mechanical fastening (not suspended). Charcoal in colour.	2.0 (.080)	1372 mm (54 in.)	18.3 m (20 yd.)
Clear .080" ½ lb. PSF	Limp, dense material, clear in colour for lighting and safe viewing requirements. Also available in transparent amber colour for protection from UV/welding flash	2.0 (.080)	1219 mm (48 in.)	18.3 m (20 yd.)