

# KINETICS®

## Barrier Material

### Model KNM

#### Description

Model KNM mass-loaded, limp, vinyl barrier materials are used for enclosing noise sources, either draped around equipment, suspended between equipment and quiet areas, or lagged to the equipment casing. KNM materials are available in 0.50 psf to 1.0 psf (2.5 to 4.9 kg/m<sup>2</sup>) surface weight, in 54-inch wide x 20-yard (1372 mm x 18.2 m) rolls, with acoustical ratings of STC-21 to STC-26. Product is easy to cut and install. The 2.0 psf (10.8 Kb/m<sup>2</sup>) barrier material, model KNM-200B.

Kinetics Model KNM-C Clearview Noise Barriers are transparent, limp, heavy PVC and are recommended for use in applications where it is necessary to maintain visual contact, yet achieve a high degree of noise reduction. KNM-C materials are available in 48-inch wide by 20 yard (1219 mm x 18.2 m) rolls with acoustical ratings of STC-21 and STC-26.

#### Application

- Machinery cover Liners
- Wall and door septum
- Noise Control curtain panels and enclosures
- OEM applications

#### Specifications

Barrier material shall meet the sound transmission loss and physical properties performance and the flammability standards listed in this brochure.

Barrier material shall have a minimum continuous operating temperature range from -40°F to 180°F (-40°C to 82.2°C), be resistant to water, oils, weak acids, alkalies, and fungi, and have excellent weather resistance.

Barrier material to be Model KNM by Kinetics Noise Control, Inc.



## Physical Properties

Product	Weight Lbs/Sq. Ft (kg/m <sup>2</sup> )	Nominal Thicknesses In. (mm)	Tensile Strength Lbs/In. (kg/mm)	Tear Strength Lbs/In. (kg/mm)	Flammability		
					Flameout, Sec.	Afterglow, Sec.	Char Length, In. (mm)
<b>KNM-50C</b>	0.50 (2.5)	0.05 (1.25)	201 (3.6)	70 (1.2)	3	0	0.5 (13)
<b>KNM-50B</b>	0.50 (2.5)	0.05 (1.25)	55 (1.0)	10 (0.2)	3	0	1.7 (43)
<b>KNM-50RB</b>	0.50 (2.5)	0.05 (1.25)	300 (5.3)	100 (1.8)	3	0	0.5 (2)
<b>KNM-100C</b>	1.00 (4.9)	0.10 (2.50)	400 (7.1)	140 (2.5)	3	0	0.5 (13)
<b>KNM-100B</b>	1.00 (4.9)	0.10 (2.50)	105 (1.9)	20 (0.4)	0	0	0.2 (5)
<b>KNM-100RB</b>	1.00 (4.9)	0.10 (2.50)	300 (5.3)	100 (1.8)	0	0	0.2 (5)
<b>KNM-200B</b>	2.00 (9.8)	0.20 (5.00)					

## Sound Transmission Loss, dB

Product	125	250	500	1000	2000	4000	STC
<b>KNM-50C</b>	11	12	15	20	26	32	21
<b>KNM-50B</b>	11	12	15	20	26	32	21
<b>KNM-50RB</b>	11	12	15	20	26	32	21
<b>KNM-100C</b>	15	19	21	28	33	37	26
<b>KNM-100B</b>	13	17	21	28	33	40	26
<b>KNM-100RB</b>	15	19	21	28	33	37	26
<b>KNM-200B</b>	21	22	27	32	37	42	31

## Product Description

**KNM-50C 1/2 PSF** (2.5 kg/m<sup>2</sup>) Clearview barrier material, nonloaded and nonreinforced. Clearview is very limp, tough and water clear. Available in 48-inch x 20-yard (1219 mm x 18.2 m) rolls.

**KNM-100C 1 PSF** (4.9 kg/m<sup>2</sup>) Clearview barrier material, nonloaded and nonreinforced. Clearview is very limp, tough and water clear. Available in 48-inch x 20-yard (1219 mm x 18.2 m) rolls.

**KNM-50B 1/2 PSF** (2.5 kg/m<sup>2</sup>) limp barrier material, unreinforced and loaded with barium sulphate. Available in black color in 54-inch x 20-yard (1372 mm x 18.2 m) rolls.

**KNM-100B 1 PSF** (4.9 kg/m<sup>2</sup>) limp barrier material, unreinforced and loaded with barium sulphate. Available in black color in 54-inch x 20-yard (1372 mm x 18.2 m) rolls.

**KNM-200B 2 PSF** (10.8 kg/m<sup>2</sup>) limp barrier material, unreinforced and loaded with barium sulphate. Available in black color in 47.5-inch x 10-yard (1206 mm x 9.1 m) rolls. See Insertion Loss data on KNM-200AL datasheet.

**KNM-50RB 1/2 PSF** (2.5 kg/m<sup>2</sup>) limp barrier material, reinforced with a fiberglass screen, and loaded with barium sulphate. Available in light tan color in 54-inch x 20-yard (1372 mm x 18.2 m) rolls.

**KNM-100RB 1 PSF** (4.9 kg/m<sup>2</sup>) limp barrier material, reinforced with a fiberglass screen, and loaded with barium sulphate. Available in grey color in 54-inch x 20-yard (1372 mm x 18.2 m) rolls.



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