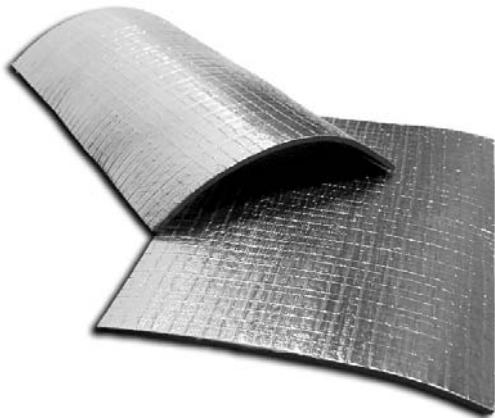


# KINETICS™

## Cross Talk Barrier Material Model KNM-100AL/AL



### Description and Application

Kinetics Model KNM-100AL/AL Cross Talk Barrier Material reduces risks due to burning, and retards smoke development and flame spread. The material is designed to reduce the sound transmission that occurs between two adjacent occupied spaces that share an open cavity above the walls. When office or cubicle walls do not extend to the ceiling deck, Model KNM-AL/AL can be hung as a cost effective replacement for gypsum board and farming.

The material is constructed of mass loaded, limp vinyl with a layer of reinforced aluminum foil face on both sides. The vinyl provides mass and flexibility, while the aluminum adds increased mechanical strength, weatherability, attractive appearance, and improved fire retardancy. The non-lead composition of the material allows for safe handling and easy installation.

### Specifications

The barrier shall be constructed of a 0.10" (3 mm) thick barium sulphate, mass-loaded, limp vinyl sheet bonded to a thin layer of reinforced aluminum foil on one or both sides. The barrier shall have a nominal density of 1.0 lb./sq. ft. (4.88 kg/sq. m.). The barrier shall exhibit minimum flammability ratings of 0.0 seconds from flame out and afterglow and 0.2 inch (5 mm) for char length when tested in accordance with Federal Test Std. No. 191-5903. The barrier shall have a minimum thermal conductivity "K" value of 0.29 and a rated service temperature range of -40°F to 220°F (-40°C to 104°C).

The barrier shall be Model KNM-100AL/AL as manufactured by Kinetics Noise Control, Inc.

### Technical Data

#### Sound Transmission Loss

Tested as a free hanging barrier (ASTM E-90-90)

Frequency	125	250	500	1000	2000	4000	STC
KNM 100ALQ-1	13	16	24	33	43	49	28

**Service Temperature:** -40°F to 220°F (-40°C to 104°C)

**Thermal Conductivity:**  $K = 0.29 \frac{\text{BTU-IN}}{\text{HR-FT}^2 \cdot ^\circ\text{F}}$   $\left( \frac{0.36 \text{ cal-cm}}{\text{HR-CM}^2 \cdot ^\circ\text{C}} \right)$

#### Flammability Per Fed. Test Std. No. 191-5903:

Flame Out: 0 Sec.  
Afterglow: 0 Sec.  
Char Length: 0.2 inch (5 mm)

**Corrosion Resistance:** Excellent for most oils, grease, acids, and mild alkalis.

**Material Thickness:** 0.10" (3 mm)

**Material Roll Size:** 54" x 60' (1.4 m x 18 m)

#### New Fire Testing Data

##### Surface Burning Characteristics per ASTM E84

Flame Spread Index - 10  
Smoke Developed Index - 40

\*Extrapolated



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Kinetics Noise Control, Inc. is continually upgrading the quality of our products. We reserve the right to make changes to this and all products without notice.