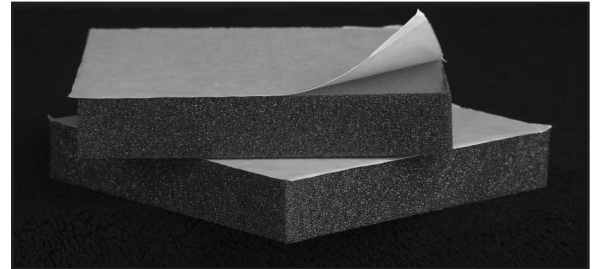


KINETICS®

Sound Absorbing Foam

Model KUA



Description

KUA sound absorbing foam material is a 2 lb. per cu. ft. (32 kg/m³) density polyester urethane foam developed to absorb maximum acoustical energy, using minimum weight and thickness. Sound is absorbed over a broad frequency spectrum with peak efficiencies above the 500 Hz frequency level.

KUA is charcoal grey in color with a consistent small open-cell structure to provide maximum sound absorption.

The material is very clean to handle and is non-toxic and non-irritating. Because of high tear and shear strength properties, it can be supported with a minimum of mechanical fasteners.

KUA acoustic foam can be attached by adhesive to most types of hard reflective surfaces. It can be furnished die-cut to any irregular shape, and can be easily cut with a utility knife or scissors.

Standard thicknesses are 1/2" through 2" (13 mm through 51 mm).

KUA acoustic foam is available with special facings for protection against oils, dirt, and moisture, and is also available with pressure-sensitive adhesive backing for ease of installation where the material is to be applied by bonding.

Application

KUA sound absorbing foam material is an absorber used to reduce the energy of reflective and/or reverberant sound waves in the middle and high frequency ranges.

When used as a decoupler of two masses, such as for wrapping ductwork or pipelines prior to the use of secondary barrier materials such as mass-loaded vinyl products, it increases the Sound Transmission Class (STC) of the system.

KUA acoustic foam may be used in baffle form above open-top enclosures where it is necessary to reduce reverberant sound levels created by reflection from hard surfaces.

The optional film facing provides protection in applications involving dust, oil mist, and moisture without detracting from the acoustical properties of the foam.

Thicknesses of up to 6" (152 mm) can be furnished on special order where low-frequency sound absorption is required.

Specifications

Sound absorbing foam material shall be polyester-type, urethane foam having an NRC Rating of 0.54 for 1/2" (13 mm), 0.75 for 1" (25 mm), or 0.90 for 2" (51 mm) thickness.

Material shall have a life service expectancy of ten years under normal applications, and shall be rated #94 HF-1 in accordance with UL #94 Flame Retardancy Tests.

Physical characteristics and properties shall be shown in the Physical Properties Chart. When used in environments where the open cells of the foam can be filled or contaminated with oil, oil mists, dirt, dusts, and water, the exposed surface shall be faced with a thin film of either Urethane, Tedlar, or Mylar to protect against this contamination.

Material shall have a density of 2 lbs./cu. ft. (32 kg/m³) and shall be model KUA as manufactured by Kinetics Noise Control, Inc.

Not recommended for application in occupied spaces due to flammability.

Sound Absorption Coefficients

Frequency, Hz

Model	125	250	500	1000	2000	4000	NRC
KUA-50	0.12	0.18	0.37	0.65	0.95	0.97	0.54
KUA-100	0.16	0.30	0.68	1.00	1.00	0.94	0.75
KUA-200	0.32	0.68	0.92	0.96	1.00	1.00	0.90
KUA-100U	0.08	0.25	0.57	0.58	0.42	0.52	0.46
KUA-100M	0.10	0.18	0.95	0.52	0.56	0.63	0.55
KUA-100T	0.08	0.21	0.60	0.43	0.48	0.72	0.43
KUA-200U	0.06	0.38	0.68	0.46	0.47	0.79	0.50

Details

Model	Thickness		Width		Length	
	in	mm	in	mm	ft.	m
KUA-50	0.50	13	54	1372	50	15.2
KUA-100	1.00	25	54	1372	50	15.2
KUA-200	2.00	51	54	1372	50	15.2

Optional Features

U	Polyurethane facing on one side
T	Tedlar facing on one side
M	Mylar facing on one side
A	Pressure sensitive adhesive on one side



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