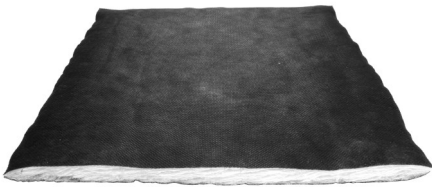


3M™ Thinsulate™ Acoustic Insulation AU X002-5 Series

Technical Data Sheet



Description

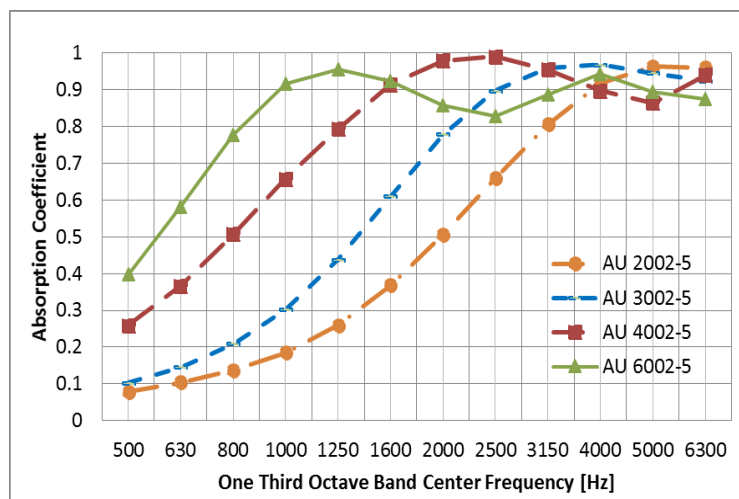
3M™ Thinsulate™ Acoustic Insulation AU X002-5 Series is a superior sound-absorbing material specifically designed for a variety of acoustic control applications with double black scrim. Its unique combination of fine microfibers that absorb high frequency noise and durable double black surfaces make it ideal for various interior and exterior applications where it can be placed near the source of the sound. It is suited for use at 120°C (248°F) for 2000 hours.

It is compressible, lightweight, conformable, and can easily be die-cut, heat sealed, and thermally or sonically bonded to many other substrates.

Acoustic Properties

Typical Normal Incidence Absorption Coefficient per ASTM E-1050

The following technical information and data is based upon limited 3M testing conditions and should not be used for specification purposes.



Physical Properties

	Unit	AU2002-5	AU3002-5	AU4002-5	AU6002-5
Weight ^A	g/m ²	285	385	505	710
Thickness ^B	mm	12	19	26	44
Density	Kg/m ³	23.8	20.3	19.4	16.1
Thermal Properties					
R-Value ^C	m ² K/W	0.31	0.48	0.64	0.96
k-Value ^D	W/mK	0.038	0.039	0.041	0.046
FMVSS 302		Pass	Pass	Pass	Pass

^A Weight is the mass per unit area of the entire absorber composite.

^B Nominal thickness is measured using a 12 in² plate with 0.002 psi (= 14N/m²) applied to the sample per SAE J1355.

^C R-Value is the thermal resistance of the insulation measured at the corresponding thickness per ASTM C518.

^D k-value is thermal conductivity of the insulation material per ASTM C518.

Contact Information

The information provided in this technical document is intended as a guide for this product. For more information or help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

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