

Product Data Sheet

Updated : September 1998 Supersedes : August 1997

Product Description

This product consists of a room temperature pressure sensitive viscoelastic polymer on dead soft aluminium foil.

It can be used for application to vibrating panels and support members. This combination of viscoelastic polymer and an aluminium foil backing (a constrained layer damper) is a unique construction with exceptional ability to control resonant vibrations in the temperature range of 40°F to 120°F (5°C to 50°C).

Physical Properties

Not for specification purposes

Viscoelastic	Room temperature acrylic viscoelastic polymer with PSA qualities.	
Liner	Easy release Paper Liner	
Thickness (ASTM D-3652)	Aluminium 10 mils (0.254 mm)	Viscoelastic 5 mils (0.127 mm)
Weight	.17 lbs per square foot	
Shelf Life	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

Performance Characteristics

Not for specification purposes

The high-energy dissipative polymer used in the 2552 Damping Foil can afford excellent control of resonance-induced vibrations. When applied to a vibrating structure, the polymer used in 2552 Damping Foil converts vibration to negligible heat. Vibration amplitudes and structure-borne noise can be consequently reduced. The performance of most damping devices is highly dependent on the interaction between the device and the system to which it is applied. That is to say, the ability of a constrained layer damping foil to provide the desired performance is affected by parameters in addition to temperature and frequency. Namely, the geometry, stiffness and the structure to which the control system is applied will affect the performance. For more information about a constrained layer configuration, please contact a representative of 3M Specialty Tapes & Adhesives on 0161 237 6363.

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The loss factor of a material is a dynamic property that can define damping



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Application Support

Testing available :

Damping analysis (FEA & Modal/Damping Testing)

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.

This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Tapes & Adhesives

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