

We have one goal — improving the noise and vibration quality of our customers' products. Roush delivers innovative, effective noise and vibration control products and solutions. By combining advanced analysis capabilities, comprehensive engineering services, and state-of-the-art facilities, Roush has become a proven partner in identifying and resolving challenging noise and vibration issues. Backed by the diverse capabilities of the Roush family of companies, we are uniquely equipped to provide turnkey noise and vibration solutions.

Roush... your silent partner in developing smoother, quieter products.

Damping Adhesive — RA840

Product Description

RA840 is a rubber-based pressure sensitive adhesive film that couples excellent damping characteristics with exceptional bond strength. RA840 is a thick damping film product available in thicknesses from 5 to 60 mils. This product is typically used in constrained-layer damping applications or in lamination processes.

Features

RA840 adhesive provides excellent adhesion to a wide variety of substrates including low surface energy materials such as polypropylene and polyethylene. RA840 possesses excellent tack and peel adhesion while maintaining superior shear strength. Since the adhesive is available in thickness up to 60 mils, it performs very well at bonding to irregular and uneven surfaces. RA840 is available in a wide range of slit widths, and is offered on a 60# densified Kraft paper, self-wound liner with each roll having un-gummed edges for ease of handling and quick liner removal.

Typical Physical Properties:

Adhesive	5 to 60 mils
Release Liner.....	Self-wound 60# densified, Kraft paper liner
Peel Adhesion ¹ (PSTC-1).....	20 lbs/in min.
Shear Adhesion ² (PSTC-7)	300+ hours to failure
Temperature Range:	
Adhesion.....	for best results, adhesion should be performed above 50°F
Damping @ 1000Hz	Excellent damping from 50°F to 175°F
Operating ³	-50°F to 220°F
Water, Detergent and Water Resistance.....	Excellent

Shelf Life: One year when stored under cool, dry conditions out of direct sunlight (75°F, 50% RH)

- Note:** (1) 180° Peel adhesion on stainless steel. Sample conditioned 30 min. at room temp., supported using 2 mil PET backing layer.
- (2) Shear adhesion test measuring hours to failure of sample bonded to stainless steel under 1000 gram/sq. in. load at 72°F.
- (3) Defines temperature range material can operate within. Above 220°F, material will soften and flow due to thermoplastic nature.

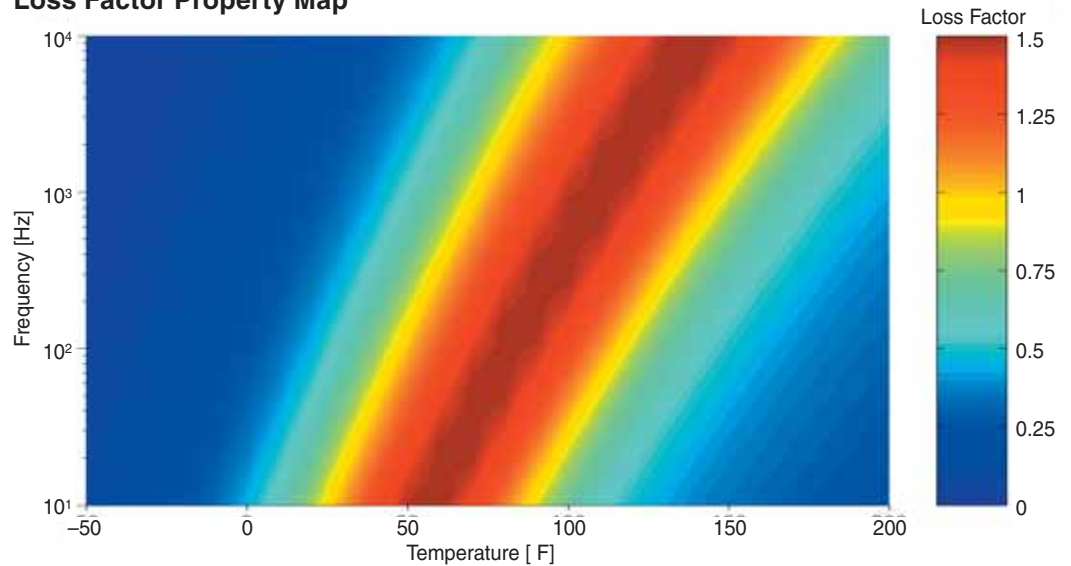




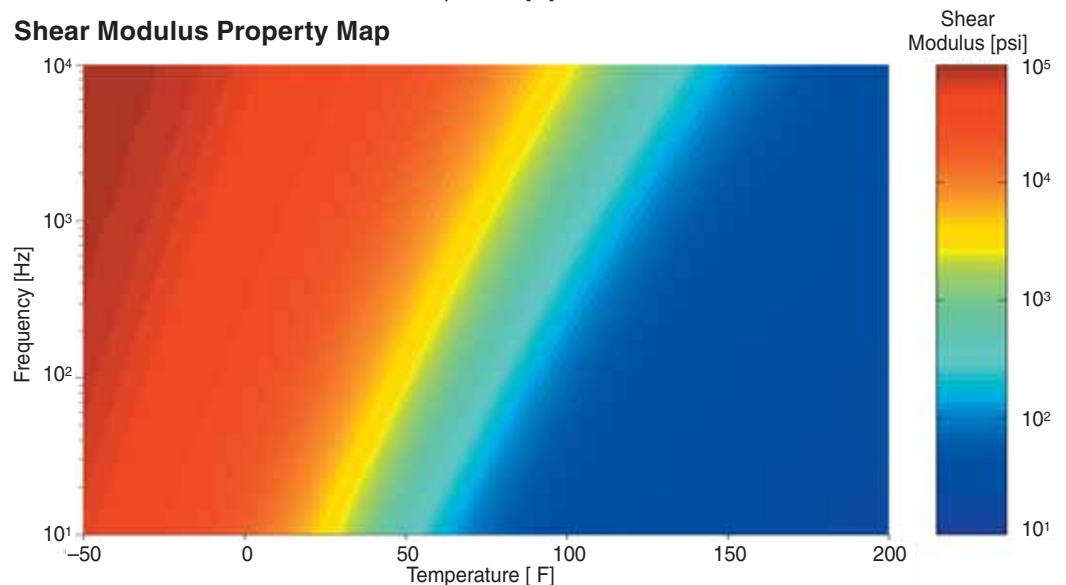
NOISE AND
VIBRATION
CONTROL
PRODUCTS

RA840 — Dynamic Material Properties (ASTM E756 Test Results)

Loss Factor Property Map



Shear Modulus Property Map



Contact us for a Temperature-Frequency Nomogram.

Full Service Noise and Vibration Control Support

Let Roush assist you with your noise and vibration control activities. We offer a full range of design, engineering, testing, and manufacturing capabilities.

As an alternative to this material, we can search our database of over 3,000 materials to identify other potential material solutions. Once selected, Roush uses design and analyses to optimize the configuration of the material for your specific application.

Roush provides manufacturing operations to convert this material into a finished part that can be delivered to your specifications. Roush has many worldwide partners that provide a wide array of low cost manufacturing processes with high quality production output.

Contact us or visit our website at www.roushind.com/NVH for more detailed information on Roush's full-service capabilities.

Product Performance and Suitability:

All information regarding the use of Roush products identified in this datasheet is believed to be reliable by Roush, but are not product specifications and must only be used as a guide. Roush does not represent or warrant that its products are fit for a particular purpose or that they do not infringe any U.S. or foreign patents. Purchaser must independently determine the suitability of the Roush products for their particular application. Unless written otherwise in Roush's Terms and Conditions of Sale for the product, this datasheet or any verbal statements made by any other distributor, salesman or representative about the product will not be deemed to create an express warranty of any kind.

ROUSH

12011 Market St.
Livonia, MI 48150
Phone: 734-779-7003 or
800-215-9658
Fax: 734-779-7903
E-mail:
sales@roushind.com

www.roushind.com/nvh