

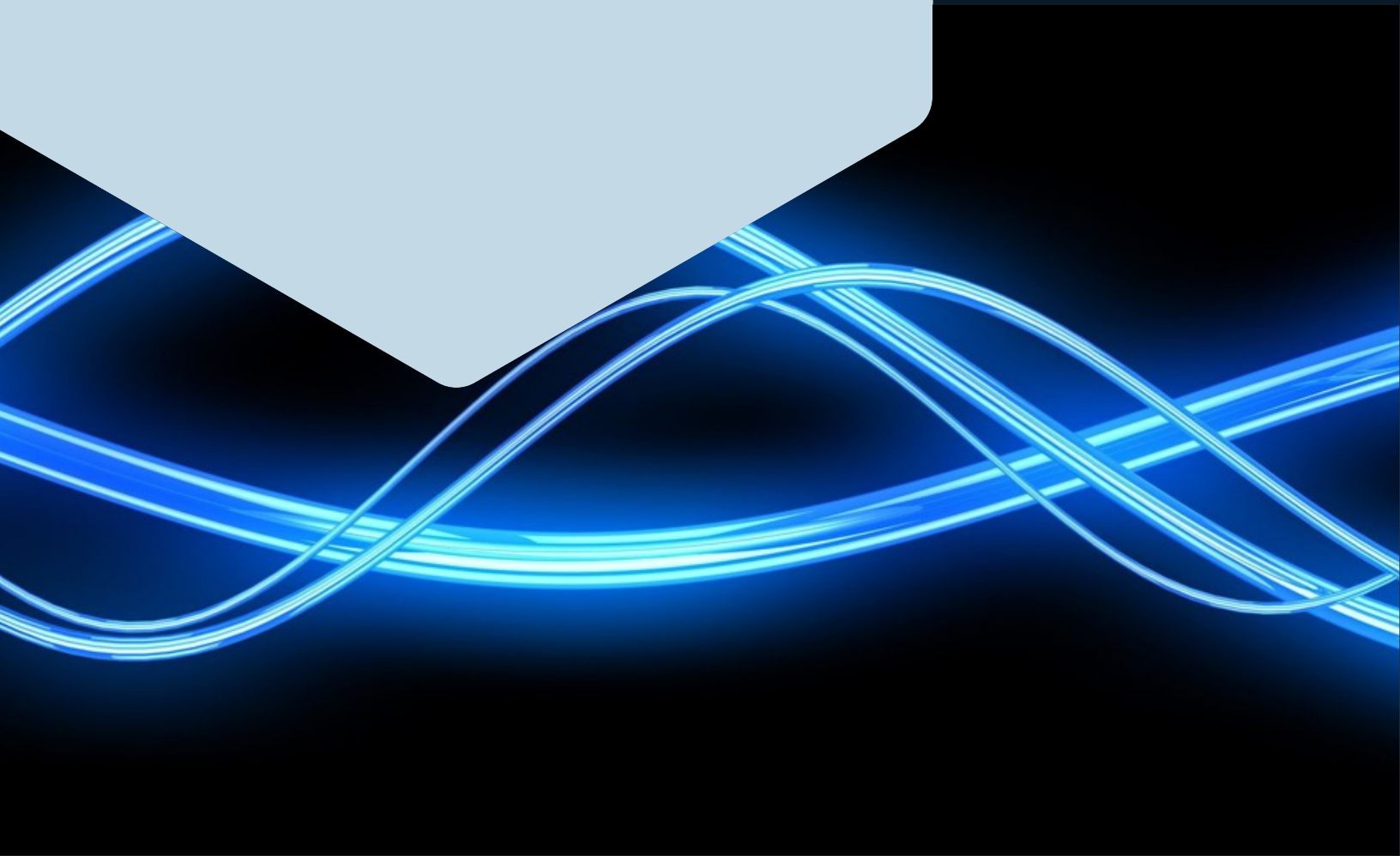
# ROUSH<sup>®</sup>

## DAMPING ADHESIVE — RA980

RA980 is an acrylic-based viscoelastic adhesive designed to have high damping performance over a wide temperature and frequency range.

[www.roush.com](http://www.roush.com)

We're focused, we're efficient,  
and we're at our best when  
we're challenged to think  
outside the box — critical traits  
when our customers' success  
depends on how quickly we  
can take their visions from the  
sketchpad to the marketplace.



## FEATURES:

RA980 damped viscoelastic adhesive offers superior damping performance over a wide temperature and frequency range with peak damping achieved from 90°F to 140°F for most applications. This material is specially processed to achieve cleaner outgassing properties over generic pressure sensitive adhesives. This makes RA980 ideal for use in the computer/hard disk drive industries, either as a laminate or constrained layer damping product. RA980 is very stable, resistant to UV exposure, thermal aging and creep/relaxation effects, and will maintain consistent performance over a long product life.

## TYPICAL PHYSICAL PROPERTIES:

Adhesive Thickness..... 1 mil, 2 mil, 4 mil, 5 mil or custom  
Release Liner .....Available with variety of linear combinations  
180° Peel Adhesion<sup>1</sup> (ASTM D-3330 PSTC-1)..... 3.0 lbs/in minimum after  
24 hrs. dwell @ R.T., or 15 minutes @ 150°F  
Shear Adhesion<sup>1</sup> @ 4 psi (PSTC-7).....24 hrs. minimum  
Temperature Range:  
Adhesion..... for best results, adhesion should be performed above 50°F  
Damping @ 1000Hz ..... Excellent damping from 50°F to 150°F  
Operating<sup>2</sup>.....0°F to 200°F  
Water, Humidity and Solvent Resistance..... Excellent  
Outgassing:  
Typical Total Outgassing (Static Headspace GC/MS, ASTM D4526) ..... 1.2µg/cm<sup>2</sup> Typical  
Total Outgassing (Dynamic Headspace GC/MS, ASTM D4526) ..... 2.5µg/cm<sup>2</sup>  
Organo-Tin Content<sup>3</sup> ..... None Detected, below measurement limits

## SHELF LIFE:

Two years when stored under cool, dry conditions out of direct sunlight (70°F, 50% RH)

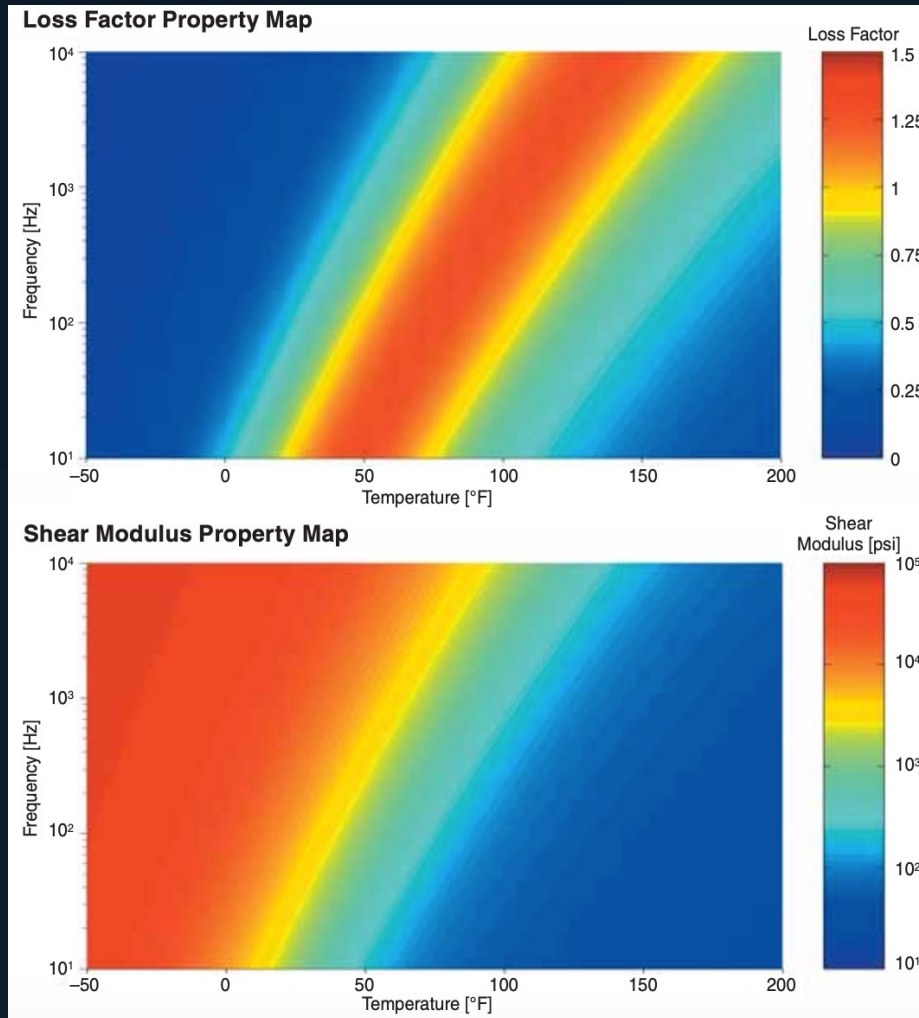
### Note:

- (1) 180° Peel Adhesion and Shear Adhesion values for 2 mil adhesive samples.
- (2) Defines temperature range material can operate within. Above 300°F, material will soften and flow due to thermoplastic nature.
- (3) Samples digested in acid solution, and metal analysis performed using ICP Mass Spectrometry.

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## RA980 — DYNAMIC MATERIAL PROPERTIES (ASTM E756 Test Results)



### 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.

**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.

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