

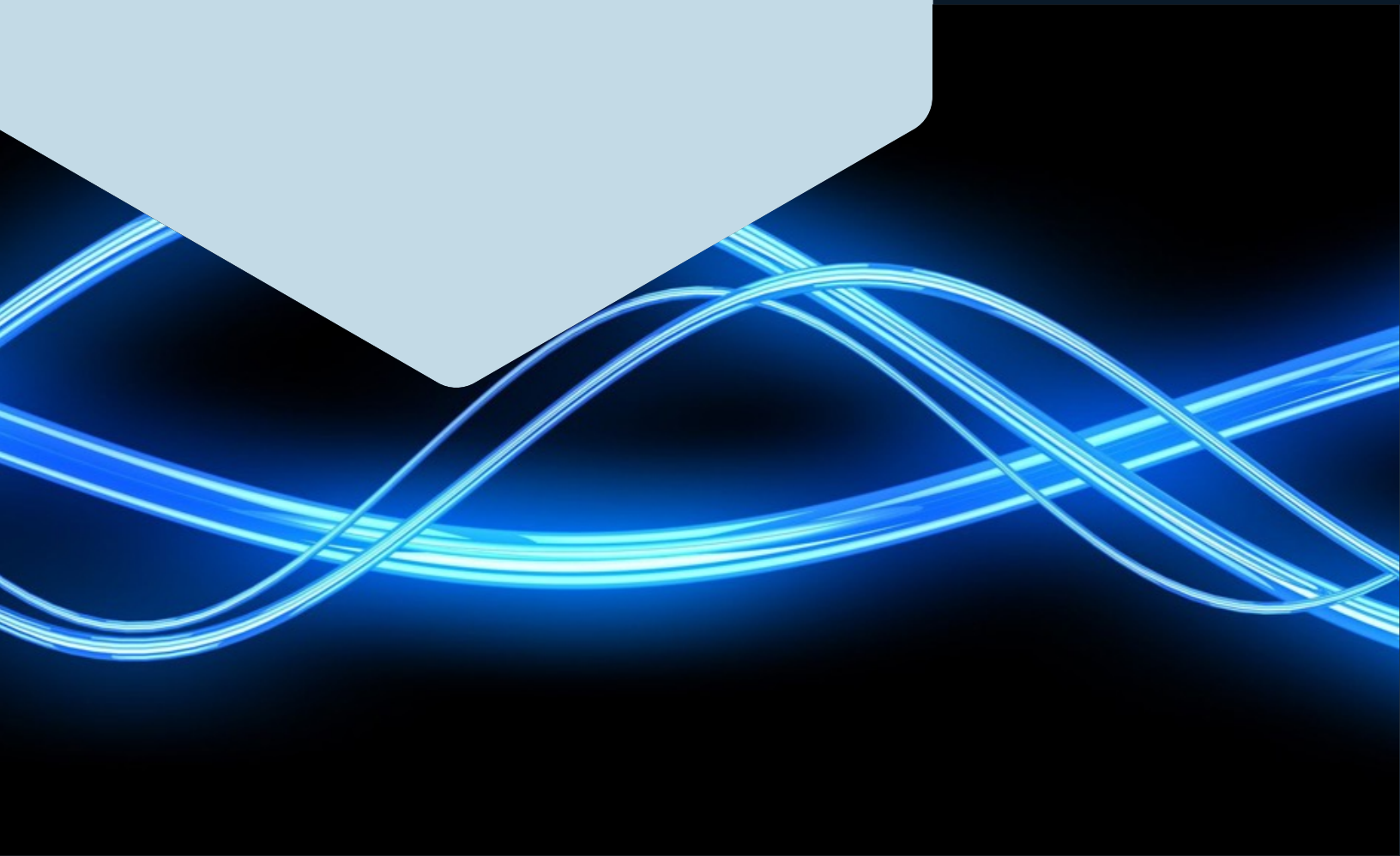
ROUSH®

DAMPING ADHESIVE — RA218

RA218 is a permanent pressure sensitive acrylic-based adhesive formulated to have high damping for joining dissimilar materials where UV and environmental resistance is needed. This material is excellent for laminating or constrained-layer damping applications.

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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:

RA218 features excellent room temperature adhesion to most surfaces with a high ultimate bond and high cohesive strength. RA218 is very stable, resistant to UV exposure and thermal aging, and will maintain consistent performance over a long product life. This material also has excellent damping performance over a broad temperature and frequency range with peak damping centered at room temperature.

TYPICAL PHYSICAL PROPERTIES:

Adhesive Thickness.....	2 mil, 5 mil or custom
Release Liner.....	Self-wound paper liner
Peel Adhesion (PSTC-3).....	5.0 lbs/in minimum after 24 hrs. dwell backed with 1 mil polyester
Peel Adhesion (PSTC-3).....	5.0 lbs/in minimum after 24 hrs. dwell backed with 4 mil dead soft aluminum
Temperature Range:	
Adhesion.....	for best results, adhesion should be performed above 60°F
Damping @1000Hz.....	Excellent damping from 40°F to 150°F
Operating ²	-30°F to 220°F
Chemical Resistance:	
Water Resistance	Excellent
Humidity Resistance	Excellent

SHELF LIFE:

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

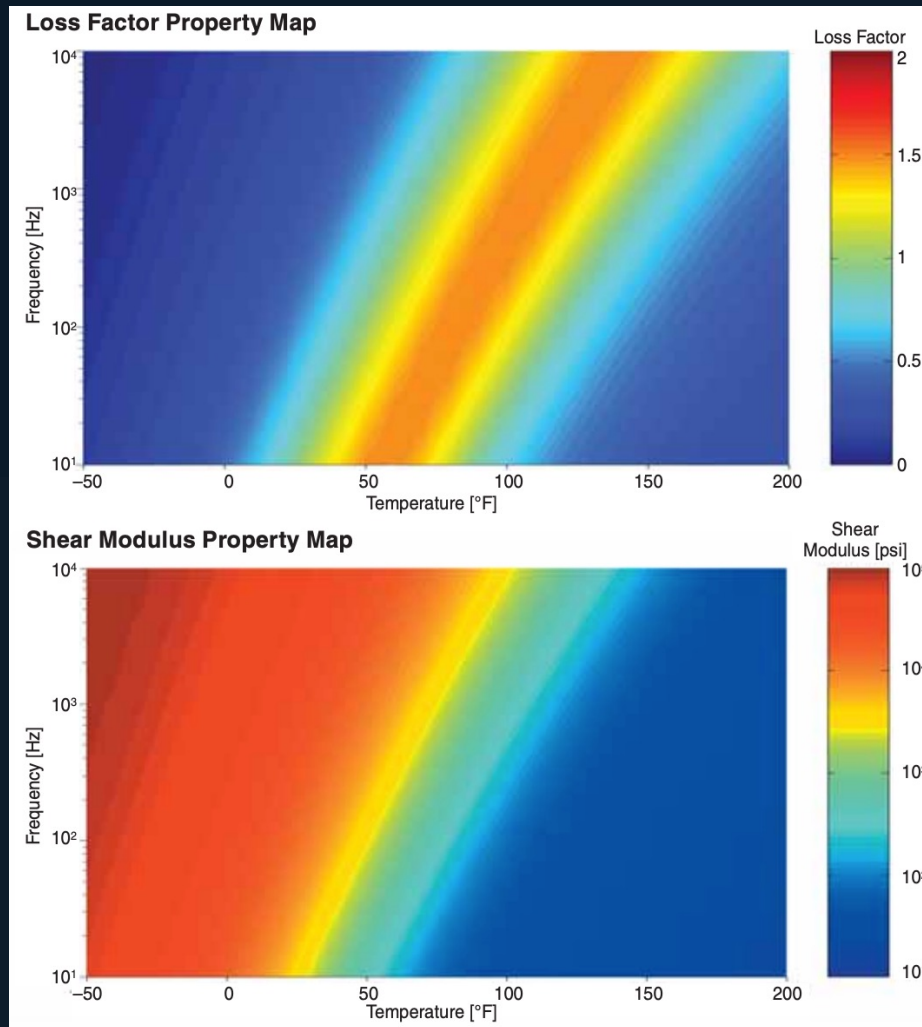
Note:

- (1) Peel Adhesion values for 2 mil adhesive samples performed as per PSTC #3 which states 1 minute max dwell time.
- (2) Defines temperature range material can operate within. Above 300°F, material will soften and flow due to thermoplastic nature.

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RA218 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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