

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 Foam — RA205B

Product Description

RA205B is a polyether-based polyurethane foam designed to have low air permeability through the open cell construction of the foam, which results in extraordinary visco-elastic damping.

Features

RA205B foam maintains a high damping performance over a broad temperature and frequency range. If properly designed, the use of this high damping material can significantly reduce the levels of a vibrating structure, resulting in improved acoustic performance as well. When ESD or tribo-electric effects are an issue, this foam is available with anti-static additives that do not adversely affect the dynamic material properties.

RA205B meets UL94 HF-1 flammability requirements, and is therefore ideally suited for use in a wide variety of applications such as those for electronic and consumer products.

Design and Manufacturing

RA205B can be slit and diecut to virtually any shape and size. Easily laminated to other substrates when used in conjunction with a PSA layer, this foam offers considerable design flexibility for customized damping products. Static load applications above 50% compression can be sustained without effecting performance. RA205B is fire resistant and hydrolytically stable, making this foam safe and reliable in many environments, including high temperatures up to 250°F.

Typical Physical Properties:

| | |
|--|-----------------------------|
| Material Type..... | Polyurethane Foam |
| Material Thickness..... | lit to order, 0.060 in min. |
| Color | Charcoal |
| Pore Size..... | 25 to 35 ppi |
| Density..... | 1.9 lb/ft ³ |
| Operating Temperature Range..... | -40 to 200°F |
| Peak Loss Factor Value | 0.75 |
| Tensile Strength..... | 15 psi min. |
| Elongation..... | 150% min. |
| Tear Resistance..... | 2.0 lb/in |
| Compression Load Deflection @ 25%..... | 0.30 psi min. |
| Compression Set @ 50% | 15% max. |
| FlammabilityUL94 | HF-1 Rating |



Roush. Your Silent Partner.



NOISE AND
VIBRATION
CONTROL
PRODUCTS

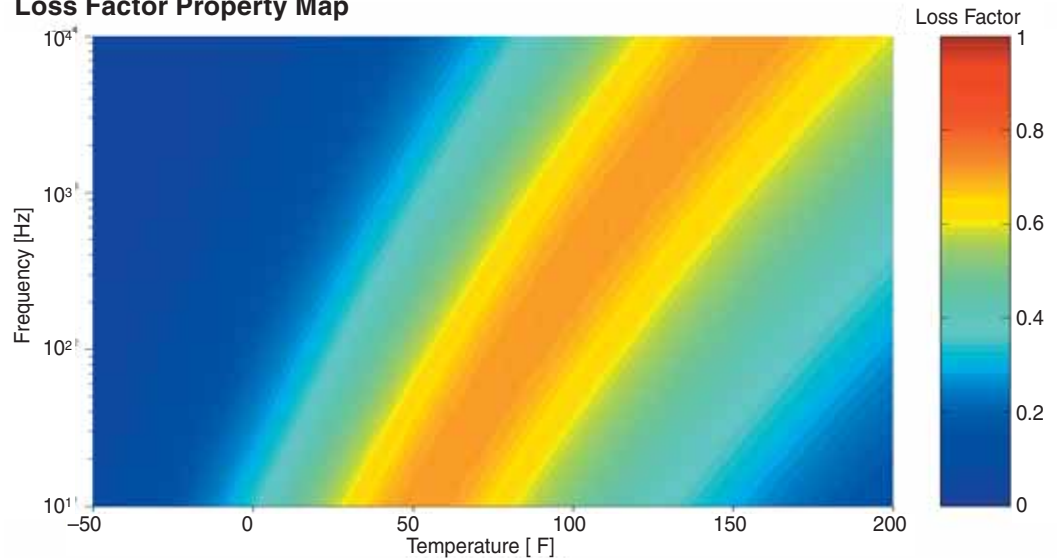
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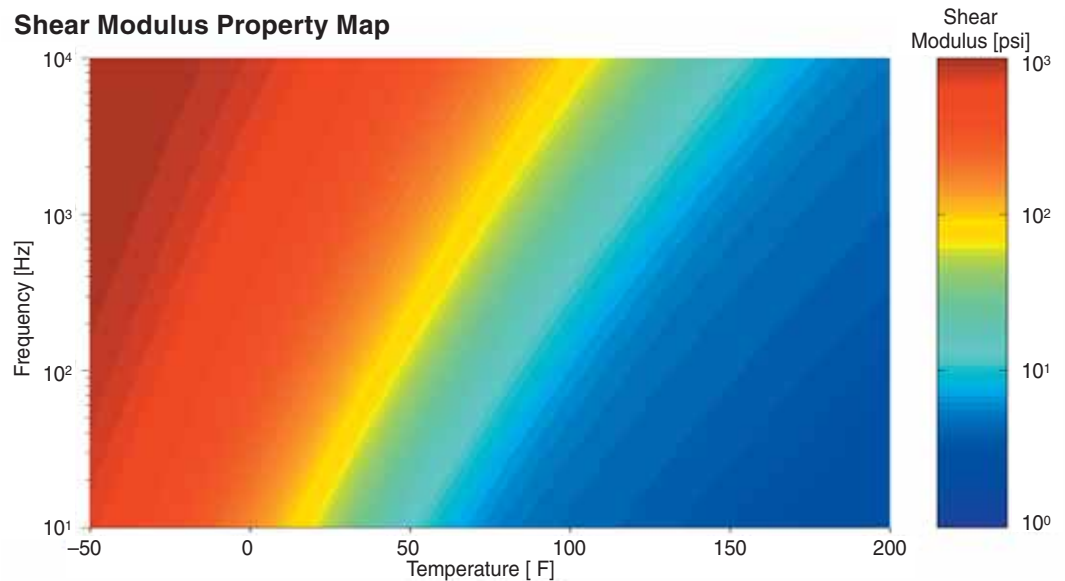
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RA205B — Dynamic Material Properties (Shear Resonance Test Results)

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.