



We have one goal — improving the noise and vibration quality of our customers' products. Roush delivers innovative, effective noise and vibration control 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.

Viscoelastic Material Solutions

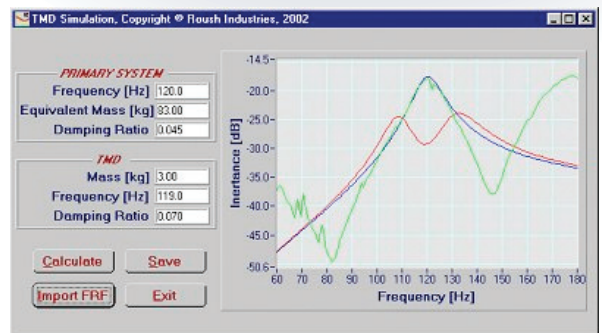
Roush engineers and manufactures viscoelastic material based solutions for a wide variety of noise and vibration control applications. Roush's Viscoelastic Materials Laboratory is one of the core technologies supporting the development of these products. Extensive research and our proprietary database of over 3,000 viscoelastic materials provides invaluable support for Roush's ongoing NVH projects. With a suite of material measurement equipment and software, each material in our database has been tested to determine its loss factor (damping) and modulus (stiffness) versus both temperature and frequency.

Applications and Products

- Isolation Systems
- Vibration Absorbers
- Damping Systems
 - Laminated Metal
 - Free Layer Treatments
 - Constrained Layer Treatments
 - Tuned Mass Dampers

Solution Development Process

- Model Generation
 - Roush Analysis Tools
 - Liner and Nonlinear FEA
 - Modal Strain Energy
- Materials Search
- Product Design/Evaluation
- Experimental Evaluation
- Production Launch



Roush provides viscoelastic material testing, recommendations for product applications, and manufactured damping and isolation products.

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



