

MATERIAL SPOTLIGHT

MARIAN



ISODAMP™ C-8012 Damping Elastomer

By Aearo Technologies LLC – a 3M company

What is ISODAMP™ C-8012? ISODAMP™ C-8012 is an ultra-thin highly damped thermoplastic elastomer (TPE) used for vibration damping, isolation and impact protection. This material is manufactured in roll format, granting it the ability to be die cut into thin, flexible component parts.

Features and Benefits:

- Ultra-thin (down to 4 mils / 0.1mm)
- Absorbs up to 87% of impact energy
- Helps protect components from shock/vibration
- Reduces unwanted noise
- IP68 achievable depending on the device design
- Can be laminated with PSA
- Can be converted/die cut
- Roll-to-roll process compatible



Competitive Advantages:

- ISODAMP™ C-8012 exhibits a superior damping performance compared to silicone, when continuous operating temperatures are not extreme
- When compared to thin foams, ISODAMP™ C-8012 is non-porous and provides more durability
- No priming for PSA required
- With PSA applied, ISODAMP™ C-8012 becomes a high performance bonding solution with sealing and vibration damping capabilities

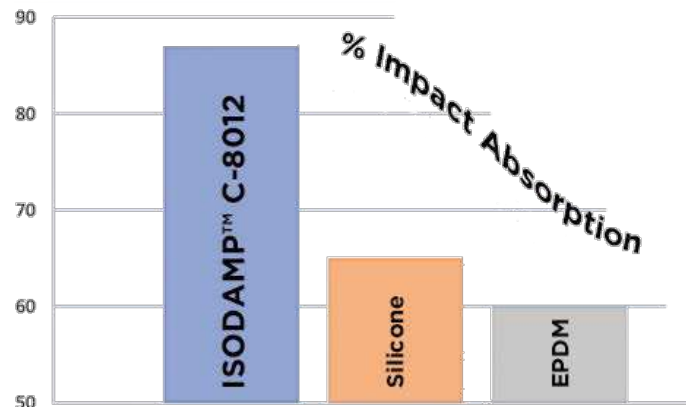


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MARKETS

- Electronics (smart phones, tablets, smart watches, cameras, speakers, headphones, displays)
- Medical devices
- Automotive electronics
- Sensors (MEMS)
- Batteries

APPLICATIONS

- Gaskets & seals
- Gap pads
- Bumpers
- Cushions
- Vibration & noise isolation/damping
- Component Isolation