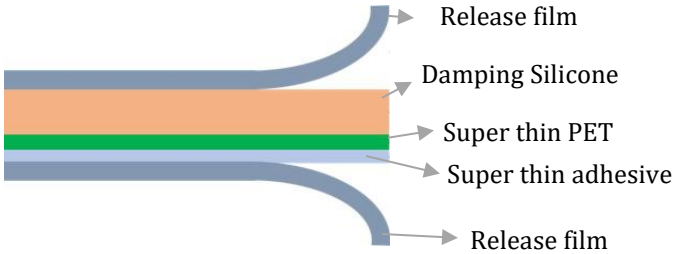
DS-H Series damping silicone

The DS-H series damping silicone sheet is a specially developed silicone product. It is easy to use. And also has good damping effect and high viscosity on the surface. It can fill up small spaces. Sticky silicone surface can be physically bonded with the object to ensure the damping path. Its excellent viscoelasticity can effectively consume part of the mechanical vibration or sound energy in the form of internal energy, reduce the vibration amplitude to achieve the purpose of damping. DS-H series silicone damping sheet can be provided in roll form with different thicknesses and easy to be processed by die cutting.



Features and Advantages

- Viscoelastic properties of the material help the device reduce noise and vibration;
- The silicone surface is with high viscosity and is suitable for interface with low surface energy.
- The viscosity increases to a higher stable value with time to prevent the product from falling off.
- Low D_3-D_{10} volatile amount which can avoid electric shock failure and optical blur;
- Materials with various thickness options to meet various gap filling requirements;
- Materials with various hardness options to meet various requirements;

Applications

- amplitude attenuation
- noise isolation
- buffer protection

Installation

- single-sided adhesive for easy attachment on different surfaces

DS-H series basic physical properties

properties	test methods	typical value
thickness (mm) tolerance	thickness gauge	0.3mm ±10%
color	visual inspection	clear silicone/black PET
* compression force deflection (kPa)	compressing speed 5mm/min. 25%compression	1400~1600
adhesion of silicone surface,180 degree peeling off（gf/25mm）	to matte PET	150~350gf/25mm
acrylic glue adhesion	ASTM D1000,180 degree peeling off，stainless steel plate	>600gf/25mm
loss factor tanδ	-40~90℃，30Hz，shear model	> 0.3（max：0.59）
shock absorption rate	ball drop：copper ball 30g，height 30cm	> 30%
D_3-D_{10}（ppm）	internal standard	total D_3~D_{10}：< 800
warranty	since production date	12months

* Refers to the compression force deflection of a sample with 0.3mm thickness.

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