

56 Sparta Avenue • Newton, New Jersey 07860
 (973) 300-3000 Sales • (973) 300-3600 Fax
 www.thorlabs.com

THORLABS

AV2/M - August 4, 2015

Item # AV2/M was discontinued on August 4, 2015. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

SORBOTHANE ISOLATORS

- ▶ **Passive Vibration and Acoustic Isolation Material**
- ▶ **Excellent for Vibration Isolation for Breadboards or Equipment**
- ▶ **Useful for Uneven Surfaces**

Sorbothane
Sheets



- SB12A** 1/8" Thick
- SB12B** 1/4" Thick
- SB12C** 1/2" Thick



AV2 Sorbothane Feet
Mounted to an MB810
Aluminum Breadboard



AV2
Vibration
Absorbing Feet

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OVERVIEW

Features

- Sorbothane® Absorbs up to 95.5% of Impact Energy
- Designed as a Vibration Isolation Material
- Ideal for Use with Thorlabs' Aluminum Breadboards

Thorlabs' Sorbothane feet and sheets offer excellent vibration and acoustic isolation for laboratory needs. Our AV2(/M) Sorbothane feet are easily threaded onto the bases of test equipment and breadboards with 1/4"-20 (M6) threads. For a more versatile option, Thorlabs also offers 12" × 12" Sorbothane sheets with 1/8" (SB12A), 1/4" (SB12B), or 1/2" (SB12C) thickness. These sheets are easily cut and can be adapted to suit a variety of custom applications.

Sorbothane is a synthetic visco-elastic material with a relaxation time of two seconds. This allows Sorbothane to absorb up to 95.5% of impact energy, making it ideal for vibration and acoustic isolation. For applications that are sensitive to vibration, Sorbothane can be used to dampen the vibrational transmission from vibrating hardware or other sources of vibrational contamination.

[Hide Sorbothane Feet](#)

Sorbothane Feet



- ▶ Supplied as Set of Four
- ▶ Ideal for Benchtop Vibration Isolation
- ▶ Can be Fitted to Base of Test Equipment
- ▶ Use Extra Mounts to Increase Load Capacity

The AV2 Sorbothane Mounting Feet provide a passive isolation solution for workbench-mounted breadboards. They can also be used to isolate noisy equipment from the optical table or breadboard surface. In contrast to our pneumatic benchtop isolation solutions, these solid Sorbothane feet do not require inflation. They are also sold in sets of four and have a 1/4"-20 (M6) thread for easy mounting.

The ideal load capacity (per mount) is 11 to 17.6 lbs (5 to 8 kg). For heavier loads, simply use additional mounts. To achieve optimal isolation, use the mounts as close to the maximum load as possible.

Note that these feet may have silicon residue on their surface from the molding process. To remove the residue, wipe the feet down with an alcohol-based solvent such as isopropyl alcohol (IPA).

Item #	AV2(M) ^a
Load Capacity (Set of Four)	44 to 70.4 lbs (20 to 32 kg)
Resonant Frequency	15 Hz
Transmissibility at Resonance	5.6 dB (1.914 Ratio)
Durometer^b	50
Dimensions	Ø1.5" x 1.0" (Ø38.1 mm x 25.4 mm)
Threaded Stud	1/4"-20 (M6)

a. All specifications are measured at full load

b. Measured using the Shore "00" scale

Part Number	Description	Price	Availability
AV2/M	Sorbothane Feet, M6 Thread, 20 - 32 kg (44 - 70.4 lb) Load, 4 Pieces	\$26.00	2 Weeks
AV2	Sorbothane Feet, 1/4"-20 Thread, 44 - 70.4 lb (20 - 32 kg) Load, 4 Pieces	\$26.00	Lead Time

[Hide Sorbothane Sheets](#)

Sorbothane Sheets



- ▶ 12" x 12" (305 mm x 305 mm) Sheet Size with 1/8" (3.2 mm), 1/4" (6.4 mm), or 1/2" (12.7 mm) Thickness
- ▶ Easy to Cut and Shape for Multiple Uses
- ▶ Hardness: 70 Durometer (Measured Using the Shore "00" Scale)

These pliable Sorbothane Sheets are ideal for isolating mechanical noise or vibrations. The substrate absorbs up to 95.5% of impact energy and then reforms to its original shape. The sheets come in three thicknesses. They can be placed under a breadboard in single or stacked layers to counter the effects of uneven work surfaces or to isolate the breadboard from vibrations. For objects over 5 lbs (approx. 2.2 kg), the thicker 1/4" (SB12B) or 1/2" (SB12C) sheets are recommended. Sorbothane sheets may be hand-cut, die-cut, or kiss-cut to suit various custom applications. Please contact Technical Support to request Sorbothane sheets with a lower hardness.

Part Number	Description	Price	Availability
SB12A	Sorbothane Sheet, 12" x 12" x 1/8", Hardness 70 Durometer	\$26.00	Today
SB12B	Sorbothane Sheet, 12" x 12" x 1/4", Hardness 70 Durometer	\$52.00	Today
SB12C	Sorbothane Sheet, 12" x 12" x 1/2", Hardness 70 Durometer	\$104.00	Today