

# Sorbothane®

## Standard Products Guide

2018



MADE IN THE U.S.A.

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# Standard Products Guide

Sorbothane® is a proprietary, visco-elastic polymer. Visco-elastic means that a material exhibits properties of both liquids (viscous solutions) and solids (elastic materials). Sorbothane® combines shock absorption, good memory, vibration isolation and vibration damping characteristics. In addition, Sorbothane® is a very effective acoustic damper and absorber. While many materials exhibit one of these characteristics, Sorbothane® combines all of them in a stable material with a long fatigue life.

- » Sorbothane® has a low creep rate compared to other polymers (rubber, neoprene, silicone, etc.)
- » Sorbothane® has a superior damping coefficient, over a very wide temperature range, compared to any other polymer.
- » Unlike fluid-based shock absorbers or foam products, Sorbothane® absorbs shock efficiently for millions of cycles.
- » Sorbothane® eliminates the need for metal springs to return the system to its equilibrium position after absorbing a shock.

## CUSTOM SOLUTIONS

If an appropriate isolator cannot be found among the standard products, Sorbothane also manufactures a host of custom isolators. Additionally, you may make isolators yourself using standard sheet stock. See the stock sheet section or contact the factory for further information at [support@sorbothane.com](mailto:support@sorbothane.com).

## ELECTRONICS

This catalog shows “industrial-sized” isolators for loads in pounds, hundreds of pounds and thousands of pounds. Sorbothane is widely used to isolate delicate electronics – printed-circuit boards, LCD's, disk drives and other small devices. Space is always tight in these applications.

## SHOCK ABSORBERS

In vibration, the wrong design can make matters worse than before. In shock absorption, even a little can improve performance. Consult the factory on your shock applications.

## ACOUSTICS

The Sorbothane hemispheres are world-famous mounts for audio equipment. In addition, where space is tight, thin sheets of Sorbothane, with or without Pressure Sensitive Adhesive (PSA) can convert a noisy design into a very quiet success.

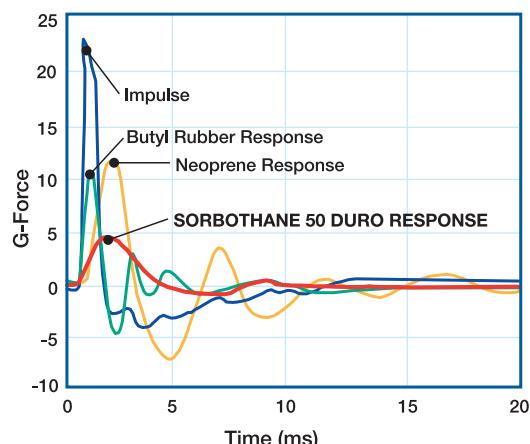
## GASKETS

Sorbothane is a popular material for gaskets because of its chemical resistance, its ability to conform to irregular surfaces, its low creep and its reusability. Its natural tackiness makes it easy to install. Gaskets can be made by you from sheet stock or produced at our factory.

## STEPS FOR SELECTING A SORBOTHANE® ISOLATOR

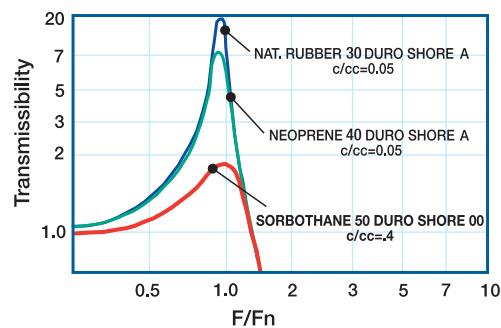
- 1.** Determine the load (weight) of the unit that requires isolation. Divide the weight of the system by the number of isolators to be used. This is the load per isolator. Evenly applied across entire pad.
- 2.** Determine the lowest critical frequency (excitation frequency) of the system. For example: RPM of the motor, rate at which a cylinder strokes, output speed of a speed reducer. Divide minute-based information, such as RPM, by 60 to convert to Hertz (cycles per second).
- 3.** Select an appropriate isolator by using the information charts supplied with each product. Generally, an appropriate isolator will create a system natural frequency at least one-third lower than the excitation frequency. For instance, if the source of the vibration is an 1800 RPM motor, then the excitation frequency is  $1800/60 = 30$  Hertz. The natural frequency of the isolator should be 20 Hertz or less.
- 4.** Select the isolator that meets the technical and physical requirements of your system. In addition to a part number, you must also specify the durometer of the Sorbothane part required to get the specified load rating. Do not oversize isolators. Oversized isolators raise the natural frequency and reduce the effectiveness. Sorbothane's standard color is black. Other colors are available for special orders.
- 5.** Remember: A bad design can actually make things worse for vibration damping. Consult the factory if you are having problems.
- 6.** Remember: Sorbothane works best in compression. If you have a tension application, bushings or a custom variation of the bushings are your best options.

## CONTROLLING SHOCK



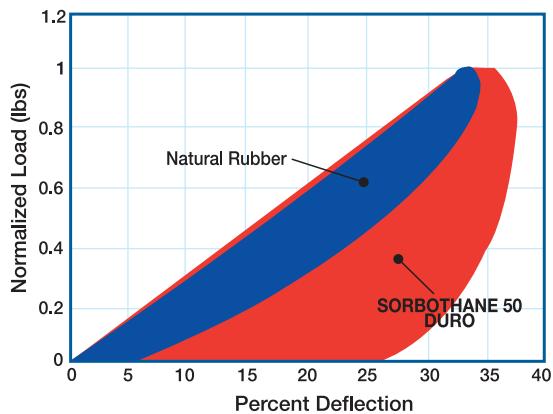
Time Delay Effect of Impulse (Shock) Response of Selected Materials

## CONTROLLING VIBRATION



Ratio of Excitation Frequency to Natural Frequency

## IMPACT ABSORPTION



Hysteresis (Mechanical Energy converted to heat each cycle)

## Durometer

Durometer is a measurement of relative stiffness and is used to compare polymers.

Sorbothane is softer than rubber and most other polymers.

Sorbothane is measured on the Shore "OO" scale.

Most types of rubber and other polymers are specified using the Shore "A" or Shore "D" scales. In comparing stiffness, be aware of the scale being used for the material in question.

The hardness comparison values listed are approximate and should only be used as a guide.

## Shape Factors

Shape Factor is a term of art used in the design of elastomer products. It has the virtue of being an easily developed mathematical expression. It quantifies the unique ability of elastomers to react to an applied force by bulging at 90 degrees to the direction of application of the force.

A "high" shape factor indicates a minimal ability to deform. A "low" shape factor indicates a soft material with a high ability to deform. Implicit in a low shape factor is a low spring rate and the capability to have a low natural frequency.

The Shape Factor is calculated by developing the ratio of the average contact surface (one side) divided by the perimeter area. As such, it can be developed for any shape that can be mathematically described. However, a few standard shapes cover over 90% of all needs.

Product properties developed using the Shape Factor methodology have a nominal accuracy of +/-15%. More precise product properties require physical testing or Finite Element Analysis (FEA).

## Calculating Deflection / Natural Frequency / Spring Rate

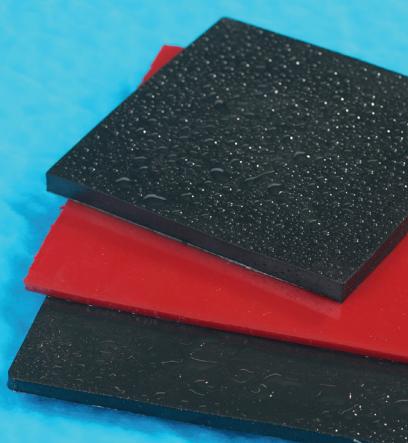
Sorbothane, Inc. offers a printable Engineering Design Guide PDF available at [sorbothane.com](http://sorbothane.com). The guide is available to assist engineers with a practical, hands-on approach to designing with Sorbothane®.

In addition to the printable guide, three interactive Engineering Design "Calculators" can be found on the Sorbothane website - <https://www.sorbothane.com/engineering-design-guide.aspx>. These calculators cover Load Ratings, Vibration Response and Impact Response for working with both Sorbothane and Water-Resistant Sorbothane. As always, the Sorbothane Engineering Team is ready to assist with any project.

## Shore Hardness Scale Comparison Chart

A	B	C	D	O	Sorbothane®
100	85	77	58		
95	81	70	46		
90	76	59	39		
85	71	52	33		
80	66	47	29	84	98
75	62	42	25	79	97
70	56	37	22	75	95
65	51	32	19	72	94
60	47	28	16	69	93
55	42	24	14	65	91
50	37	20	12	61	90
45	32	17	10	57	88
40	27	14	8	53	86
35	22	12	7	48	83
30	17	9	6	42	80
25	12			35	76
20	6			28	70
15				21	62
10				14	55
5				8	45

**WATER-RESISTANT**  
**Sorbothane®**



Please call for pricing and availability.

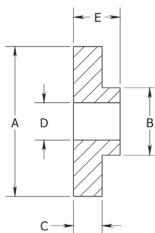
**Sorbothane®**

# Bushings & Washers



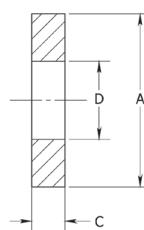
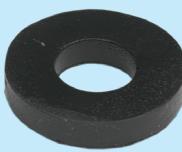
Sorbothane® Bushings are designed to isolate vibration and absorb shock. Using two bushings together or a bushing and washer(s), you can create a floating bolt that isolates the unit from any metal-to-metal contact. Different durometers allow for different spring rates. Load ratings assume a 10%-20% deflection of the material. This deflection is achieved by a combination of system weight and torquing of the connecting bolts. Do not over torque the bolts as this defeats the intended vibration isolation and shortens bushing life. Use a high-quality (thread deforming) lock nut. Bushings may be used in tension connections.

## BUSHINGS



PART NUMBER	DIMENSIONS					DURO	RATED LOAD (lbs)	NOTES
	A (DIA)	B	C	D	E			
0576170-30-10	0.72	0.50	0.15	0.28	0.22	30	3 - 8	
0576170-50-10	0.72	0.50	0.15	0.28	0.22	50	4 - 11	
0576170-70-10	0.72	0.50	0.15	0.28	0.22	70	8 - 21	
0510005-30-10	1.00	0.46	0.19	0.28	0.31	30	7 - 18	
0510005-50-10	1.00	0.46	0.19	0.28	0.31	50	15 - 25	
0510005-70-10	1.00	0.46	0.19	0.28	0.31	70	20 - 42	
0510002-30-10	1.00	0.45	0.19	0.25	0.60	30	13 - 22	
0510002-50-10	1.00	0.45	0.19	0.25	0.60	50	22 - 33	
0510002-70-10	1.00	0.45	0.19	0.25	0.60	70	28 - 44	

## WASHERS



PART NUMBER	DIMENSIONS					DURO	RATED LOAD (lbs)	NOTES
	A (DIA)	B	C	D	E			
0510020-30-10	0.50		0.13	0.13		30	0.40 - 0.75	
0510020-50-10	0.50		0.13	0.13		50	1 - 2	
0510020-70-10	0.50		0.13	0.13		70	4 - 10	
0510001-30-10	1.00		0.19	0.45		30	1 - 2	
0510001-50-10	1.00		0.19	0.45		50	3.5 - 8	
0510001-70-10	1.00		0.19	0.45		70	15 - 35	
0510045-30-10	1.25		0.38	0.50		30	2 - 3	
0510045-50-10	1.25		0.38	0.50		50	4.5 - 9	
0510045-70-10	1.25		0.38	0.50		70	20 - 40	
0510050-30-10	1.50		0.50	0.50		30	2 - 4	
0510050-50-10	1.50		0.50	0.50		50	6 - 14	
0510050-70-10	1.50		0.50	0.50		70	30 - 65	

## WASHERS with PSA



PART NUMBER	DIMENSIONS					DURO	RATED LOAD (lbs)	NOTES
	A (DIA)	B	C	D	E			
0510003-30-10	1.00		0.19	0.45		30	1 - 2	
0510003-50-10	1.00		0.19	0.45		50	3.5 - 8	
0510003-70-10	1.00		0.19	0.45		70	15 - 35	
0510051-30-10	1.50		0.50	0.50		30	2 - 4	
0510051-50-10	1.50		0.50	0.50		50	6 - 14	
0510051-70-10	1.50		0.50	0.50		70	30 - 65	

## Sorbothane®

# Material Properties

### Material Properties of Sorbothane®

PROPERTY	DUROMETER (SHORE 00)			UNITS	NOTES
	30	50	70		
Tensile Strength at Break	26	107	191	psi	ASTM D 412-06a
Elongation at Break	334	765	388	%	ASTM D 412-06a
Compression Set	10	3	2	%	ASTM D 395
Bulk Modulus	4.5	5.0	4.3	gPascal	
Density	83	84	85	lb/ft³	ASTM E 792-13
Optimum Performance Temperature Range	-20° to +140°	-20° to +150°	-20° to +160°	°F	Reduced strength and damping up to 200°F. Increased spring rate down to glass transition temperature.
Fungal Resistance	No Growth				ASTM G 22

### Material Properties of Water Resistant Sorbothane®

PROPERTY	DUROMETER (SHORE 00)			UNITS	NOTES
	30	50	70		
Tensile Strength at Break	130	131	170	psi	ASTM D 412-06a
Elongation at Break	342	219	154	%	ASTM D 412-06a
Compression Set	10	2	3	%	ASTM D 395
Bulk Modulus	4.25	3.99	4.14	gPascal	
Density	78.78	79.78	79.60	lb/ft³	ASTM E 792-13
Optimum Performance Temperature Range	-20° to +140°	-20° to +150°	-20° to +160°	°F	Reduced strength and damping up to 200°F. Increased spring rate down to glass transition temperature.
Fungal Resistance	No Growth				ASTM G 22

Sorbothane® meets or exceeds the following compliance policies:

- ROHS • REACH • PROP 65 • Conflict Materials • Latex Free

# Isolation Hemispheres

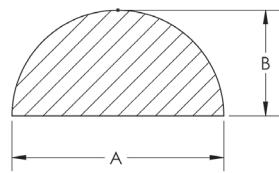
Custom Colors Available

Sorbothane® Hemisphere mounts provide a quick, cost-effective method of isolating bench equipment, small machinery and audio equipment.



Place the hemisphere under the unit to be isolated with the curved surface up. Expect a 20 to 30% deflection when statically loaded. Under loading will result in poor isolation. All sizes are available with Pressure Sensitive Adhesive (PSA).

## HEMISPHERE



### TYPICAL APPLICATIONS:

- » Audio Equipment
- » Video Components
- » Computer & Electronic Devices
- » Sensitive Testing Instruments
- » Small Machinery

PART NUMBER	DIMENSIONS		DURO	RATED LOAD (lbs)	NOTES
	DIA.	HT.			
0510100-30-10	0.50	0.25	30	0.2 - 0.5	
0510100-50-10	0.50	0.25	50	0.3 - 0.7	
0510100-70-10	0.50	0.25	70	0.5 - 1.2	
0510110-30-10	0.75	0.375	30	0.5 - 0.9	
0510110-50-10	0.75	0.375	50	1 - 1.8	
0510110-70-10	0.75	0.375	70	1.8 - 3.6	
0510115-30-10	1.00	0.50	30	1 - 2	
0510115-50-10	1.00	0.50	50	2 - 4	
0510115-70-10	1.00	0.50	70	4 - 8	
0510120-30-10	1.25	0.625	30	2 - 4	
0510120-50-10	1.25	0.625	50	5 - 10	
0510120-70-10	1.25	0.625	70	15 - 22	
0510130-30-10	1.50	0.75	30	4 - 7	
0510130-50-10	1.50	0.75	50	7 - 14	
0510130-70-10	1.50	0.75	70	14 - 30	
0510135-30-10	1.75	0.875	30	7 - 12	
0510135-50-10	1.75	0.875	50	12 - 19	
0510135-70-10	1.75	0.875	70	15 - 27	
0510140-30-10	2.00	1.00	30	11 - 16	
0510140-50-10	2.00	1.00	50	17 - 24	
0510140-70-10	2.00	1.00	70	25 - 38	
0510160-30-10	2.25	1.125	30	18 - 26	
0510160-50-10	2.25	1.125	50	31 - 42	
0510160-70-10	2.25	1.125	70	38 - 52	
0510150-30-10	2.50	1.25	30	25 - 35	
0510150-50-10	2.50	1.25	50	45 - 60	
0510150-70-10	2.50	1.25	70	60 - 80	

# HEMISPHERE

with PSA



## AGGRESSIVE PRESSURE SENSITIVE ADHESIVE

Double coated tape with adhesive features a thin polyester film for dimensional stability and improved handling. The adhesive provides exceptional temperature and chemical resistance and withstands tough application environments. Firm application pressure, and the amount of adhesive-to-surface contact, combines to develop superior bonding strength.

PART NUMBER	DIMENSIONS		DURO	RATED LOAD (lbs)	NOTES
	DIA.	HT.			
0510026-30-10	0.25	0.125	30	0.034 - 0.068	
0510026-50-10	0.25	0.125	50	0.054 - 0.124	
0510026-70-10	0.25	0.125	70	0.166 - 0.356	
0510101-30-10	0.50	0.25	30	0.2 - 0.5	
0510101-50-10	0.50	0.25	50	0.3 - 0.7	
0510101-70-10	0.50	0.25	70	0.5 - 1.2	
0510111-30-10	0.75	0.375	30	0.5 - 0.9	
0510111-50-10	0.75	0.375	50	1 - 1.8	
0510111-70-10	0.75	0.375	70	1.8 - 3.6	
0510116-30-10	1.00	0.50	30	1 - 2	
0510116-50-10	1.00	0.50	50	2 - 4	
0510116-70-10	1.00	0.50	70	4 - 8	
0510121-30-10	1.25	0.625	30	2 - 4	
0510121-50-10	1.25	0.625	50	5 - 10	
0510121-70-10	1.25	0.625	70	15 - 22	
0510131-30-10	1.50	0.75	30	4 - 7	
0510131-50-10	1.50	0.75	50	7 - 14	
0510131-70-10	1.50	0.75	70	14 - 30	
0510136-30-10	1.75	0.875	30	7 - 12	
0510136-50-10	1.75	0.875	50	12 - 19	
0510136-70-10	1.75	0.875	70	15 - 27	
0510141-30-10	2.00	1.00	30	11 - 16	
0510141-50-10	2.00	1.00	50	17 - 24	
0510141-70-10	2.00	1.00	70	25 - 38	
0510161-30-10	2.25	1.125	30	18 - 26	
0510161-50-10	2.25	1.125	50	31 - 42	
0510161-70-10	2.25	1.125	70	38 - 52	
0510151-30-10	2.50	1.25	30	25 - 35	
0510151-50-10	2.50	1.25	50	45 - 60	
0510151-70-10	2.50	1.25	70	60 - 80	

## HEMISPHERE with Felt Dot



PART NUMBER	DIMENSIONS		DURO	RATED LOAD (lbs)	NOTES
	DIA.	HT.			
0510122-30-10	1.25	0.625	30	2 - 4	
0510122-50-10	1.25	0.625	50	5 - 10	
0510122-70-10	1.25	0.625	70	15 - 22	
0510132-30-10	1.50	0.75	30	4 - 7	
0510132-50-10	1.50	0.75	50	7 - 14	
0510132-70-10	1.50	0.75	70	14 - 30	
0510138-30-10	1.75	0.875	30	7 - 12	
0510138-50-10	1.75	0.875	50	12 - 19	
0510138-70-10	1.75	0.875	70	15 - 27	
0510142-30-10	2.00	1.00	30	11 - 16	
0510142-50-10	2.00	1.00	50	17 - 24	
0510142-70-10	2.00	1.00	70	25 - 38	
0510162-30-10	2.25	1.125	30	18 - 26	
0510162-50-10	2.25	1.125	50	31 - 42	
0510162-70-10	2.25	1.125	70	38 - 42	
0510152-30-10	2.50	1.25	30	24 - 34	
0510152-50-10	2.50	1.25	50	47 - 64	
0510152-70-10	2.50	1.25	70	64 - 84	

## HEMISPHERE with Felt Dot & PSA



PART NUMBER	DIMENSIONS		DURO	RATED LOAD (lbs)	NOTES
	DIA.	HT.			
0510123-30-10	1.25	0.625	30	2 - 4	
0510123-50-10	1.25	0.625	50	5 - 10	
0510123-70-10	1.25	0.625	70	15 - 22	
0510133-30-10	1.50	0.75	30	4 - 7	
0510133-50-10	1.50	0.75	50	7 - 14	
0510133-70-10	1.50	0.75	70	14 - 30	
0510139-30-10	1.75	0.875	30	7 - 12	
0510139-50-10	1.75	0.875	50	12 - 19	
0510139-70-10	1.75	0.875	70	15 - 27	
0510143-30-10	2.00	1.00	30	11 - 16	
0510143-50-10	2.00	1.00	50	17 - 24	
0510143-70-10	2.00	1.00	70	25 - 38	
0510163-30-10	2.25	1.125	30	18 - 26	
0510163-50-10	2.25	1.125	50	31 - 42	
0510163-70-10	2.25	1.125	70	38 - 42	
0510153-30-10	2.50	1.25	30	24 - 34	
0510153-50-10	2.50	1.25	50	47 - 64	
0510153-70-10	2.50	1.25	70	64 - 84	

**HEMISPHERE**  
*with Urethane Coating  
& PSA*



**URETHANE COATING**

The thin urethane coating helps to make the Sorbothane® Hemisphere easier to handle by reducing the amount of natural tack. The coating also reduces surface friction and adds a layer of protection from elements.

PART NUMBER	DIMENSIONS		DURO	RATED LOAD (lbs)	NOTES
	DIA.	HT.			
0510028-30-10	0.25	0.125	30	18 - 26	
0510028-50-10	0.25	0.125	50	31 - 42	
0510028-70-10	0.25	0.125	70	38 - 52	
0510104-30-10	0.50	0.25	30	0.2 - 0.5	
0510104-50-10	0.50	0.25	50	0.3 - 0.7	
0510104-70-10	0.50	0.25	70	0.5 - 1.2	
0510114-30-10	0.75	0.375	30	0.5 - 0.9	
0510114-50-10	0.75	0.375	50	1 - 1.8	
0510114-70-10	0.75	0.375	70	1.8 - 3.6	
0510117-30-10	1.00	0.50	30	1 - 2	
0510117-50-10	1.00	0.50	50	2 - 4	
0510117-70-10	1.00	0.50	70	4 - 8	
0510124-30-10	1.25	0.625	30	2 - 4	
0510124-50-10	1.25	0.625	50	5 - 10	
0510124-70-10	1.25	0.625	70	15 - 22	
0510134-30-10	1.50	0.75	30	4 - 7	
0510134-50-10	1.50	0.75	50	7 - 14	
0510134-70-10	1.50	0.75	70	14 - 30	
0510137-30-10	1.75	0.875	30	7 - 12	
0510137-50-10	1.75	0.875	50	12 - 19	
0510137-70-10	1.75	0.875	70	15 - 27	
0510144-30-10	2.00	1.00	30	11 - 16	
0510144-50-10	2.00	1.00	50	17 - 24	
0510144-70-10	2.00	1.00	70	25 - 38	
0510164-30-10	2.25	1.125	30	18 - 26	
0510164-50-10	2.25	1.125	50	31 - 42	
0510164-70-10	2.25	1.125	70	38 - 52	
0510154-30-10	2.50	1.25	30	25 - 35	
0510154-50-10	2.50	1.25	50	45 - 60	
0510154-70-10	2.50	1.25	70	60 - 80	

Sorbothane®

# Stud Mounts & Bumpers

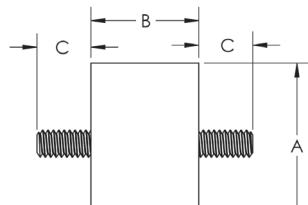


Sorbothane® Stud Mounts, with metal inserts, are available in three standard sizes that utilize both UNC and metric threads. Other UNC and metric threads are available by special order. These Stud Mounts and Bumpers are designed for use in compression.

Use high-quality (thread deforming) lock nuts or double jam nuts to assure your connections do not vibrate loose. High amplitude vibrations require special, heavy-duty inserts. Please consult with the Sorbothane engineering department.

## STUD MOUNTS

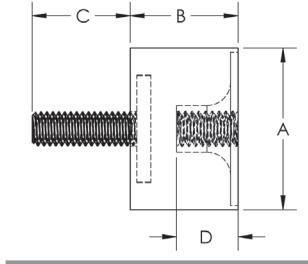
### Male-Male



PART NUMBER	STYLE	THREAD	DIMENSIONS			DURO	RATED LOAD (lbs)	NOTES
			A	B	C			
0510310-50-10	M-M	#8-32	0.75	0.50	0.47	50	4 - 8	
0510310-70-10	M-M	#8-32	0.75	0.50	0.47	70	8 - 12	
0510330-50-10	M-M	1/4-20	1.50	1.00	0.50	50	11 - 16	
0510330-70-10	M-M	1/4-20	1.50	1.00	0.50	70	19 - 27	
0510350-50-10	M-M	1/4-20	1.75	0.85	0.50	50	20 - 40	
0510350-70-10	M-M	1/4-20	1.75	0.85	0.50	70	35 - 75	
<b>METRIC</b>								
0510410-50-10	M-M	M4	19	12.7	12.0	50	4 - 8	
0510410-70-10	M-M	M4	19	12.7	12.0	70	8 - 12	
0510430-50-10	M-M	M6	38.1	25.4	12.7	50	11 - 15	
0510430-70-10	M-M	M6	38.1	25.4	12.7	70	18 - 26	
0510450-50-10	M-M	M6	44.5	21.6	12.7	50	20 - 40	
0510450-70-10	M-M	M6	44.5	21.6	12.7	70	35 - 75	

## STUD MOUNTS

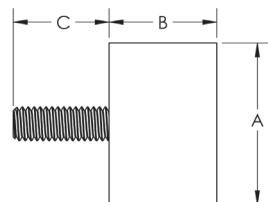
### Male-Female



PART NUMBER	STYLE	THREAD	DIMENSIONS				DURO	RATED LOAD (lbs)	NOTES
			A	B	C	D			
0510311-50-10	M-F	#8-32	0.75	0.50	0.47	0.25	50	3 - 6	
0510311-70-10	M-F	#8-32	0.75	0.50	0.47	0.25	70	5 - 12	
0510331-50-10	M-F	1/4-20	1.50	1.00	0.50	0.35	50	11 - 18	
0510331-70-10	M-F	1/4-20	1.50	1.00	0.50	0.35	70	18 - 30	
0510351-50-10	M-F	1/4-20	1.75	0.85	0.50	0.35	50	20 - 40	
0510351-70-10	M-F	1/4-20	1.75	0.85	0.50	0.35	70	36 - 75	
<b>METRIC</b>									
0510411-50-10	M-F	M4	19	12.7	12.0	6.35	50	3 - 6	
0510411-70-10	M-F	M4	19	12.7	12.0	6.35	70	5 - 12	
0510431-50-10	M-F	M6	38.1	25.4	12.7	8.9	50	11 - 18	
0510431-70-10	M-F	M6	38.1	25.4	12.7	8.9	70	18 - 29	
0510451-50-10	M-F	M6	44.5	21.6	12.7	8.9	50	20 - 40	
0510451-70-10	M-F	M6	44.5	21.6	12.7	8.9	70	35 - 75	

## BUMPERS

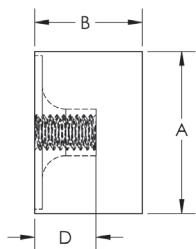
*Male*



PART NUMBER	STYLE	THREAD	DIMENSIONS			DURO	RATED LOAD (lbs)	NOTES
			A	B	C			
0510312-50-10	Male	#8-32	0.75	0.50	0.47	50	2 - 4	
0510312-70-10	Male	#8-32	0.75	0.50	0.47	70	7 - 6	
0510332-50-10	Male	1/4-20	1.50	1.00	0.50	50	7 - 14	
0510332-70-10	Male	1/4-20	1.50	1.00	0.50	70	30 - 65	
0510352-50-10	Male	1/4-20	1.75	0.85	0.50	50	10 - 22	
0510352-70-10	Male	1/4-20	1.75	0.85	0.50	70	45 - 100	
<b>METRIC</b>								
0510412-50-10	Male	M4	19	12.7	12.0	50	2 - 4	
0510412-70-10	Male	M4	19	12.7	12.0	70	7 - 16	
0510432-50-10	Male	M6	38.1	25.4	12.7	50	7 - 14	
0510432-70-10	Male	M6	38.1	25.4	12.7	70	30 - 65	
0510452-50-10	Male	M6	44.5	21.6	12.7	50	10 - 22	
0510452-70-10	Male	M6	44.5	21.6	12.7	70	45 - 100	

## BUMPERS

*Female*

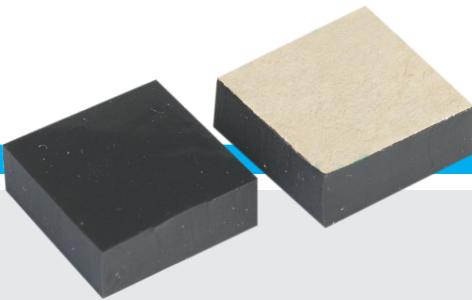


PART NUMBER	STYLE	THREAD	DIMENSIONS			DURO	RATED LOAD (lbs)	NOTES
			A	B	D			
0510313-50-10	Female	#8-32	0.75	0.50	0.25	50	3-5	
0510313-70-10	Female	#8-32	0.75	0.50	0.25	70	6-8	
0510333-50-10	Female	1/4-20	1.50	1.00	0.35	50	11-18	
0510333-70-10	Female	1/4-20	1.50	1.00	0.35	70	18-27	
0510353-50-10	Female	1/4-20	1.75	0.85	0.35	50	20-40	
0510353-70-10	Female	1/4-20	1.75	0.85	0.35	70	35-75	
<b>METRIC</b>								
0510413-50-10	Female	M4	19	12.7	6.35	50	3 - 5	
0510413-70-10	Female	M4	19	12.7	6.35	70	6 - 8	
0510433-50-10	Female	M6	38.1	25.4	8.9	50	11-18	
0510433-70-10	Female	M6	38.1	25.4	8.9	70	18-26	
0510453-50-10	Female	M6	44.5	21.6	8.9	50	20-40	
0510453-70-10	Female	M6	44.5	21.6	8.9	70	35-75	

Sorbothane®

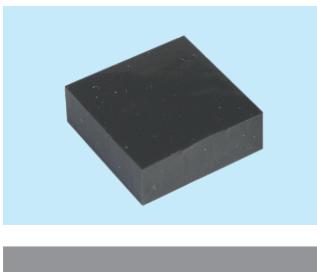
# Isolation Pads

Sorbothane® Isolation Pads can support a wide range of loads. Select the correct thickness, durometer and the number of pads required for the load.



## ISOLATION PADS

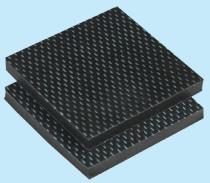
**Square**



PART NUMBER	DIMENSION	DURO	RATED LOAD (lbs)	NOTES
0510610-30-10	0.10 x 0.50 x 0.50	30	1 - 2	
0510610-50-10	0.10 x 0.50 x 0.50	50	3 - 6	
0510610-70-10	0.10 x 0.50 x 0.50	70	10 - 25	
0510618-30-10	0.188 x 0.50 x 0.50	30	0.5 - 1	
0510618-50-10	0.188 x 0.50 x 0.50	50	1.5 - 2.5	
0510618-70-10	0.188 x 0.50 x 0.50	70	5 - 14	
0510625-30-10	0.25 x 0.50 x 0.50	30	0.4 - 1.8	
0510625-50-10	0.25 x 0.50 x 0.50	50	1 - 2	
0510625-70-10	0.25 x 0.50 x 0.50	70	4 - 10	
0510712-30-10	0.125 x 0.75 x 0.75	30	3 - 6	
0510712-50-10	0.125 x 0.75 x 0.75	50	9 - 19	
0510712-70-10	0.125 x 0.75 x 0.75	70	37 - 90	
0510718-30-10	0.188 x 0.75 x 0.75	30	1.5 - 3.5	
0510718-50-10	0.188 x 0.75 x 0.75	50	5 - 10	
0510718-70-10	0.188 x 0.75 x 0.75	70	20 - 50	
0510725-30-10	0.250 x 0.75 x 0.75	30	1 - 2.5	
0510725-50-10	0.250 x 0.75 x 0.75	50	3.5 - 7.5	
0510725-70-10	0.250 x 0.75 x 0.75	70	15 - 35	
0510812-30-10	0.125 x 1.00 x .100	30	9 - 18	
0510812-50-10	0.125 x 1.00 x .100	50	25 - 55	
0510812-70-10	0.125 x 1.00 x .100	70	100 - 270	
0510818-30-10	0.188 x 1.00 x .100	30	4.5 - 9.5	
0510818-50-10	0.188 x 1.00 x .100	50	13 - 28	
0510818-70-10	0.188 x 1.00 x .100	70	55 - 135	
0510825-30-10	0.250 x 1.00 x .100	30	3 - 6	
0510825-50-10	0.250 x 1.00 x .100	50	9 - 18	
0510825-70-10	0.250 x 1.00 x .100	70	36 - 90	

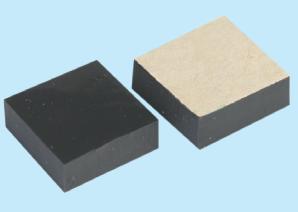
## ISOLATION PADS

*with Fabric Top & Bottom*



## ISOLATION PADS

*with PSA*



PART NUMBER	DIMENSION	DURO	RATED LOAD (lbs)	NOTES
0510425-30-10	0.25 x 2.5 x 2.5	30	NA	
0510425-50-10	0.25 x 2.5 x 2.5	50	NA	
0510425-70-10	0.25 x 2.5 x 2.5	70	NA	

PART NUMBER	DIMENSION	DURO	RATED LOAD (lbs)	NOTES
0510611-30-10	0.10 x 0.50 x 0.50	30	1 - 2	
0510611-50-10	0.10 x 0.50 x 0.50	50	3 - 6	
0510611-70-10	0.10 x 0.50 x 0.50	70	10 - 25	
0510619-30-10	0.188 x 0.50 x 0.50	30	0.5 - 1	
0510619-50-10	0.188 x 0.50 x 0.50	50	1.5 - 2.5	
0510619-70-10	0.188 x 0.50 x 0.50	70	5 - 14	
0510626-30-10	0.25 x 0.50 x 0.50	30	0.4 - 0.8	
0510626-50-10	0.25 x 0.50 x 0.50	50	1 - 2	
0510626-70-10	0.25 x 0.50 x 0.50	70	4 - 10	
0510713-30-10	.125 x 0.75 x 0.75	30	3 - 6	
0510713-50-10	.125 x 0.75 x 0.75	50	9 - 19	
0510713-70-10	.125 x 0.75 x 0.75	70	37 - 90	
0510719-30-10	.188 x 0.75 x 0.75	30	1.5 - 3.5	
0510719-50-10	.188 x 0.75 x 0.75	50	5 - 10	
0510719-70-10	.188 x 0.75 x 0.75	70	20 - 50	
0510726-30-10	.250 x 0.75 x 0.75	30	1 - 2.5	
0510726-50-10	.250 x 0.75 x 0.75	50	3.5 - 7.5	
0510726-70-10	.250 x 0.75 x 0.75	70	15 - 35	
0510813-30-10	.125 x 1.00 x 1.00	30	4 - 18	
0510813-50-10	.125 x 1.00 x 1.00	50	25 - 55	
0510813-70-10	.125 x 1.00 x 1.00	70	110 - 270	
0510819-30-10	.188 x 1.00 x 1.00	30	4.5 - 9.5	
0510819-50-10	.188 x 1.00 x 1.00	50	13 - 28	
0510819-70-10	.188 x 1.00 x 1.00	70	55 - 135	
0510826-30-10	.250 x 1.00 x 1.00	30	3 - 6	
0510826-50-10	.250 x 1.00 x 1.00	50	4 - 18	
0510826-70-10	.250 x 1.00 x 1.00	70	36 - 90	

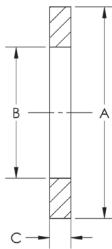
**Sorbothane®**

# Isolation Rings



Sorbothane® Isolation Rings are ideal for heavy load applications that require shock protection or a low system natural frequency. Typical applications include shipping sensitive hardware, optics and electronics.

## ISOLATION RINGS

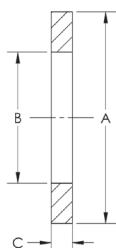


PART NUMBER	DIMENSIONS			DURO	RATED LOAD (lbs)	NOTES
	A OD.	B ID.	C HT.			
0510802-30-10	1.75	0.63	0.25	30	7 - 15	
0510802-50-10	1.75	0.63	0.25	50	20 - 45	
0510802-70-10	1.75	0.63	0.25	70	90 - 215	
0510823-30-10	2.00	0.50	0.375	30	8 - 18	
0510823-50-10	2.00	0.50	0.375	50	24 - 55	
0510823-70-10	2.00	0.50	0.375	70	105 - 260	
0510825-30-10	2.00	0.50	0.50	30	6 - 13	
0510825-50-10	2.00	0.50	0.50	50	17 - 39	
0510825-70-10	2.00	0.50	0.50	70	75 - 185	
0510845-30-10	2.50	0.50	0.50	30	13 - 29	
0510845-50-10	2.50	0.50	0.50	50	38 - 88	
0510845-70-10	2.50	0.50	0.50	70	170 - 420	
0510865-30-10	3.00	1.00	0.50	30	17 - 39	
0510865-50-10	3.00	1.00	0.50	50	51 - 118	
0510865-70-10	3.00	1.00	0.50	70	220 - 560	
0510867-30-10	3.00	1.00	0.75	30	11 - 24	
0510867-50-10	3.00	1.00	0.75	50	32 - 74	
0510867-70-10	3.00	1.00	0.75	70	140 - 356	
0510882-30-10	3.00	2.00	0.25	30	11 - 24	
0510882-50-10	3.00	2.00	0.25	50	32 - 74	
0510882-70-10	3.00	2.00	0.25	70	139 - 350	
0510885-30-10	3.00	2.00	0.50	30	5 - 12	
0510885-50-10	3.00	2.00	0.50	50	16 - 37	
0510885-70-10	3.00	2.00	0.50	70	70 - 175	
0510907-30-10	4.00	1.00	0.75	30	32 - 74	
0510907-50-10	4.00	1.00	0.75	50	96 - 222	
0510907-70-10	4.00	1.00	0.75	70	420 - 1000	
0510909-30-10	4.00	1.00	1.00	30	25 - 50	
0510909-50-10	4.00	1.00	1.00	50	70 - 150	
0510909-70-10	4.00	1.00	1.00	70	300 - 750	

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# ISOLATION RINGS

*continued*



PART NUMBER	DIMENSIONS			DURO	RATED LOAD (lbs)	NOTES
	A OD.	B ID.	C HT.			
0510925-30-10	4.00	2.00	0.50	30	26 - 59	
0510925-50-10	4.00	2.00	0.50	50	80 - 175	
0510925-70-10	4.00	2.00	0.50	70	340 - 480	
0510929-30-10	4.00	2.00	1.00	30	13 - 29	
0510929-50-10	4.00	2.00	1.00	50	40 - 85	
0510929-70-10	4.00	2.00	1.00	70	170 - 420	
0510942-30-10	4.00	3.00	0.25	30	15 - 34	
0510942-50-10	4.00	3.00	0.25	50	45 - 100	
0510942-70-10	4.00	3.00	0.25	70	200 - 490	
0510945-30-10	4.00	3.00	0.50	30	7.5 - 17	
0510945-50-10	4.00	3.00	0.50	50	23 - 50	
0510945-70-10	4.00	3.00	0.50	70	100 - 240	
0572155-30-10	5.00	3.10	0.50	30	31 - 70	
0572155-50-10	5.00	3.10	0.50	50	92 - 210	
0572155-70-10	5.00	3.10	0.50	70	400 - 1000	
0572157-30-10	5.00	3.10	0.75	30	20 - 45	
0572157-50-10	5.00	3.10	0.75	50	60 - 135	
0572157-70-10	5.00	3.10	0.75	70	260 - 650	
0572160-30-10	5.00	3.10	1.00	30	16 - 36	
0572160-50-10	5.00	3.10	1.00	50	50 - 110	
0572160-70-10	5.00	3.10	1.00	70	210 - 250	
0572175-30-10	5.00	2.50	0.50	30	32 - 70	
0572175-50-10	5.00	2.50	0.50	50	95 - 220	
0572175-70-10	5.00	2.50	0.50	70	420 - 1000	
0572177-30-10	5.00	2.50	0.75	30	25 - 50	
0572177-50-10	5.00	2.50	0.75	50	71 - 165	
0572177-70-10	5.00	2.50	0.75	70	310 - 780	
0572170-30-10	5.00	2.50	1.00	30	85 - 185	
0572170-50-10	5.00	2.50	1.00	50	259 - 560	
0572170-70-10	5.00	2.50	1.00	70	1075 - 2720	
0572185-30-10	5.00	2.00	0.50	30	25 - 50	
0572185-50-10	5.00	2.00	0.50	50	71 - 165	
0572185-70-10	5.00	2.00	0.50	70	1075 - 2720	
0572187-30-10	5.00	2.00	0.75	30	45 - 100	
0572187-50-10	5.00	2.00	0.75	50	135 - 310	
0572187-70-10	5.00	2.00	0.75	70	590 - 1480	
0572180-30-10	5.00	2.00	1.00	30	32 - 70	
0572180-50-10	5.00	2.00	1.00	50	95 - 215	
0572180-70-10	5.00	2.00	1.00	70	420 - 1040	

Sorbothane®

# Isolation Discs



Sorbothane® Isolation Discs can support a wide range of loads. Select the correct thickness, durometer and the number of discs required for the load.

## ISOLATION DISCS

### Round



PART NUMBER	DIMENSION	DURO	RATED LOAD (lbs)	NOTES
0531025-30-10	0.25 x 1.00 Dia.	30	2.5 - 4.5	
0531025-50-10	0.25 x 1.00 Dia.	50	6.6 - 14.5	
0531025-70-10	0.25 x 1.00 Dia.	70	30 - 65	
0531050-30-10	0.50 x 1.00 Dia.	30	1 - 2.4	
0531050-50-10	0.50 x 1.00 Dia.	50	3.5 - 7	
0531050-70-10	0.50 x 1.00 Dia.	70	14 - 35	
0531525-30-10	0.25 x 1.50 Dia.	30	9 - 20	
0531525-50-10	0.25 x 1.50 Dia.	50	27 - 60	
0531525-70-10	0.25 x 1.50 Dia.	70	120 - 180	
0531550-30-10	0.50 x 1.50 Dia.	30	3.5 - 7.5	
0531550-50-10	0.50 x 1.50 Dia.	50	10 - 23	
0531550-70-10	0.50 x 1.50 Dia.	70	45 - 110	
0510435-30-10	0.25 x 2.25 Dia.	30	40 - 90	
0510435-50-10	0.25 x 2.25 Dia.	50	120 - 270	
0510435-70-10	0.25 x 2.25 Dia.	70	530 - 1320	
0532350-30-10	0.50 x 2.25 Dia.	30	13 - 29	
0532350-50-10	0.50 x 2.25 Dia.	50	120 - 275	
0532350-70-10	0.50 x 2.25 Dia.	70	525 - 1320	
0532525-30-10	0.25 x 2.50 Dia.	30	60 - 130	
0532525-50-10	0.25 x 2.50 Dia.	50	180 - 400	
0532525-70-10	0.25 x 2.50 Dia.	70	790 - 1980	
0532550-30-10	0.50 x 2.50 Dia.	30	19 - 42	
0532550-50-10	0.50 x 2.50 Dia.	50	55 - 125	
0532550-70-10	0.50 x 2.50 Dia.	70	240 - 600	
0533025-30-10	0.25 x 3.00 Dia.	30	125 - 275	
0533025-50-10	0.25 x 3.00 Dia.	50	370 - 840	
0533025-70-10	0.25 x 3.00 Dia.	70	460 - 1160	

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## ISOLATION DISCS

**Round** *continued*



PART NUMBER	DIMENSION	DURO	RATED LOAD (lbs)	NOTES
0533050-30-10	0.50 x 3.00 Dia.	30	35 - 80	
0533050-50-10	0.50 x 3.00 Dia.	50	105 - 240	
0533050-70-10	0.50 x 3.00 Dia.	70	460 - 1160	
0534025-30-10	0.25 x 4.00 Dia.	30	375 - 865	
0534025-50-10	0.25 x 4.00 Dia.	50	1120 - 2600	
0534025-70-10	0.25 x 4.00 Dia.	70	4900 12,440	
0534050-30-10	0.50 x 4.00 Dia.	30	100 - 235	
0534050-50-10	0.50 x 4.00 Dia.	50	305 - 712	
0534050-70-10	0.50 x 4.00 Dia.	70	1,335 - 3,390	
0534075-30-10	0.75 x 4.00 Dia.	30	52 - 120	
0534075-50-10	0.75 x 4.00 Dia.	50	155 - 360	
0534075-70-10	0.75 x 4.00 Dia.	70	675 - 1700	
0534100-30-10	1.00 x 4.00 Dia.	30	34 - 79	
0534100-50-10	1.00 x 4.00 Dia.	50	102 - 237	
0534100-70-10	1.00 x 4.00 Dia.	70	445 - 1130	

## ISOLATION DISCS

*with PSA*



PART NUMBER	DIMENSION	DURO	RATED LOAD (lbs)	NOTES
0531026-30-10	0.25 x 1.00 Dia.	30	2.5 - 4.5	
0531026-50-10	0.25 x 1.00 Dia.	50	6.5 - 14.5	
0531026-70-10	0.25 x 1.00 Dia.	70	30 - 65	
0531051-30-10	0.50 x 1.00 Dia.	30	1 - 2.4	
0531051-50-10	0.50 x 1.00 Dia.	50	3.5 - 7	
0531051-70-10	0.50 x 1.00 Dia.	70	14 - 35	
0531526-30-10	0.25 x 1.50 Dia.	30	9 - 20	
0531526-50-10	0.25 x 1.50 Dia.	50	27 - 60	
0531526-70-10	0.25 x 1.50 Dia.	70	120 - 280	
0531551-30-10	0.50 x 1.50 Dia.	30	3.5 - 7.5	
0531551-50-10	0.50 x 1.50 Dia.	50	10 - 23	
0531551-70-10	0.50 x 1.50 Dia.	70	45 - 110	
0510436-30-10	0.25 x 2.25 Dia.	30	40 - 90	
0510436-50-10	0.25 x 2.25 Dia.	50	120 - 270	
0510436-70-10	0.25 x 2.25 Dia.	70	530 - 1320	
0532351-30-10	0.50 x 2.25 Dia.	30	13 - 29	
0532351-50-10	0.50 x 2.25 Dia.	50	120 - 275	
0532351-70-10	0.50 x 2.25 Dia.	70	525 - 1320	

**Sorbothane®**

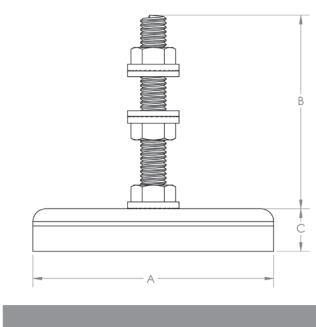
# Anti-Vibration Leveling Mounts

Sorbothane® Anti-Vibration Leveling Mounts provide both leveling and vibration isolation. They are designed to handle a wide range of loads and varying environmental conditions. Major benefits of the mounts include their ability to isolate a system from unwanted vibration and resonance by lowering the natural frequency of the system.



The dual urethane compounds compliment each other to provide a high degree of vibration and shock damping. These mounts provide a quick, cost-effective way to dissipate unwanted energy and correct for machine and floor leveling problems.

## ANTI-VIBRATION LEVELING MOUNTS



PART NUMBER	THREAD (UNC)	DIMENSIONS			DURO	RATED LOAD (lbs)	NOTES
		A	B	C			
0510510-70-10	1/4 - 20	2.00	1.875	0.75	70	75 - 185	
0510505-70-10	1/4 - 20	2.25	1.875	0.75	70	115 - 285	
0510515-70-10	1/4 - 20	2.50	1.875	0.62	70	195 - 485	
0510520-70-10	3/8 - 16	2.50	2.875	0.62	70	195 - 485	
0510530-70-10	3/8 - 16	3.50	2.875	0.88	70	370 - 925	
0510525-70-10	3/8 - 16	3.50	2.875	0.62	70	820 - 2070	

## VALUES

**FAMILY** Relationships built on mutual respect and teamwork

**CUSTOMER PARTNERS** Listen first – then collaborate to engineer the best solution

**QUALITY** Excellence – delivered across all platforms

**INTEGRITY** Adherence to a code of moral values and methods

**SERVICE** Striving to meet and exceed all expectations

**Sorbothane®**  
SHOCK & VIBRATION SOLUTIONS

# Sorbothane® Sheet Stock

## CUSTOMIZING SHEET STOCK

### Die Cutting

Sheet Stock up to 0.25-inch thick, with or without PSA can be die cut at additional cost. Die cut materials will have a concave edge. Consult factory on costs.

### Water Jet Cutting

Sheet Stock of any thickness can be water jet cut. Water jet cut materials will have a clean edge. Consult factory on costs.

### Gaskets

Sorbothane is a popular material for gaskets because of its chemical resistance, conformability to irregular surfaces, low creep and reusability. Its natural tackiness makes it easy to install.

Gaskets can be knife-cut, scissor-cut, die cut, molded or water jet cut.

### X-Tra Flex Sheet

X-Tra Flex Sheet is molded with hemispherical bumps. The hemispheres permit the material to flex more easily and allow for soft deformation under load. Overall sheet thickness is approximately 0.185-inch. The hemispheres are approximately 0.09 high and 0.12 diameter. X-Tra Flex sheets are easier to apply to curved and irregular surfaces and provide a softer spring rate.

### Special Sizes, Colors and Thicknesses

The factory can pour special shapes, colors and thicknesses.

#### Available colors include:



BLACK



BLUE



DARK BLUE



RED



ORANGE



GREEN

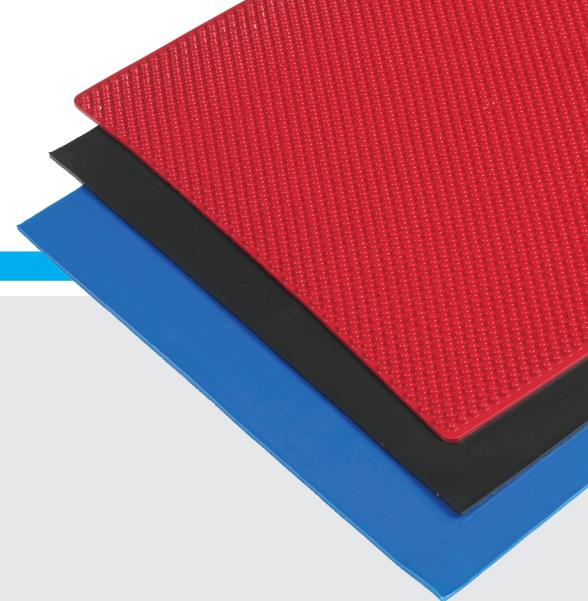


YELLOW



GRAY

Please contact factory for pricing & minimums



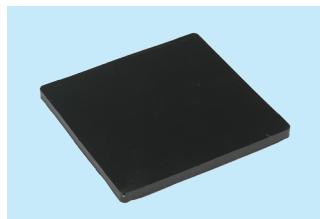
## Sheet Stock for Vibration Applications

In designing your own vibration mounts from sheet stock keep the following in mind:

- **More is not better.** A large, lightly loaded sheet will have a high spring rate and will not deflect enough to provide good isolation. Over compression will lead to short service life. The proper compression range is 3 to 20 percent depending on the "Shape Factor." Shape factor is the ratio of contact surface (one side) divided by perimeter area. See page 5 for calculation of shape factors.
- **Geometry matters.** Small circular pieces and rings "bulge" better than squares and rectangles. "Bulgeability" makes for better isolation. Use many small discs rather than a few large rectangles for best vibration isolation performance.
- **Thickness matters.** The thicker the sheet, the lower the natural frequency. You need a sheet at least one-inch thick to get your natural frequency down to 10 Hertz. (10 Hertz is your target natural frequency for a 900 RPM motor.)
- **Do not "bolt through" your Sorbothane sheet.** The bolt will carry the vibration to the base. Use the natural tackiness of Sorbothane, or apply adhesives to glue the Sorbothane to metal plates on both sides, or consider a custom design with molded-in stud mounts.
- **Use vibration-rated connections.** Where bolted connections are used, use high-quality (thread deforming) lock nuts or doubled jam nuts to prevent connections from vibrating loose.

## SMALL SHEET STOCK

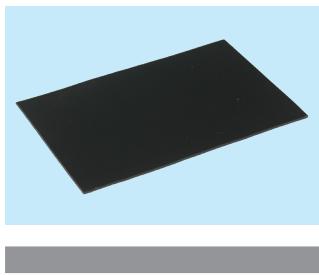
4" x 4" & 5" x 5"



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0204010-30-10	0.10	$\pm 0.015$	30	
0204010-50-10	0.10	$\pm 0.015$	50	
0204010-70-10	0.10	$\pm 0.015$	70	
0204012-30-10	0.125	$\pm 0.020$	30	
0204012-50-10	0.125	$\pm 0.020$	50	
0204012-70-10	0.125	$\pm 0.020$	70	
0204018-30-10	0.188	$\pm 0.020$	30	
0204018-50-10	0.188	$\pm 0.020$	50	
0204018-70-10	0.188	$\pm 0.020$	70	
0204025-30-10	0.25	$\pm 0.025$	30	
0204025-50-10	0.25	$\pm 0.025$	50	
0204025-70-10	0.25	$\pm 0.025$	70	
0204037-30-10	0.375	$\pm 0.025$	30	
0204037-50-10	0.375	$\pm 0.025$	50	
0204037-70-10	0.375	$\pm 0.025$	70	
0204050-30-10	0.50	$\pm 0.035$	30	
0204050-50-10	0.50	$\pm 0.035$	50	
0204050-70-10	0.50	$\pm 0.035$	70	
0205025-30-10	0.25	$\pm 0.025$	30	
0205025-50-10	0.25	$\pm 0.025$	50	
0205025-70-10	0.25	$\pm 0.025$	70	
0205050-30-10	0.50	$\pm 0.035$	30	
0205050-50-10	0.50	$\pm 0.035$	50	
0205050-70-10	0.50	$\pm 0.035$	70	

## SHEET STOCK

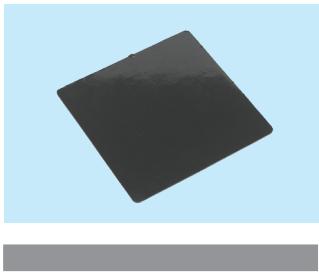
4" x 6"



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0208040-40-10	0.040	$\pm 0.007$	40	
0208040-50-10	0.040	$\pm 0.007$	50	
0208040-60-10	0.040	$\pm 0.007$	60	
0208040-70-10	0.040	$\pm 0.007$	70	
0208060-40-10	0.060	$\pm 0.007$	40	
0208060-50-10	0.060	$\pm 0.007$	50	
0208060-60-10	0.060	$\pm 0.007$	60	
0208060-70-10	0.060	$\pm 0.007$	70	

## SHEET STOCK

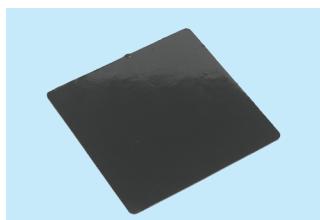
6" x 6"



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0206080-40-10	0.080	$\pm 0.015$	40	
0206080-50-10	0.080	$\pm 0.015$	50	
0206080-60-10	0.080	$\pm 0.015$	60	
0206080-70-10	0.080	$\pm 0.015$	70	
0266025-30-10	0.25	$\pm 0.025$	30	
0266025-40-10	0.25	$\pm 0.025$	40	
0266025-50-10	0.25	$\pm 0.025$	50	
0266025-60-10	0.25	$\pm 0.025$	60	
0266025-70-10	0.25	$\pm 0.025$	70	
0266050-30-10	0.50	$\pm 0.035$	30	
0266050-40-10	0.50	$\pm 0.035$	40	
0266050-50-10	0.50	$\pm 0.035$	50	
0266050-60-10	0.50	$\pm 0.035$	60	
0266050-70-10	0.50	$\pm 0.035$	70	
0266075-30-10	0.75	$\pm 0.040$	30	
0266075-40-10	0.75	$\pm 0.040$	40	
0266075-50-10	0.75	$\pm 0.040$	50	
0266075-60-10	0.75	$\pm 0.040$	60	
0266075-70-10	0.75	$\pm 0.040$	70	
0266100-30-10	1.00	$\pm 0.060$	30	
0266100-40-10	1.00	$\pm 0.060$	40	
0266100-50-10	1.00	$\pm 0.060$	50	
0266100-60-10	1.00	$\pm 0.060$	60	
0266100-70-10	1.00	$\pm 0.060$	70	

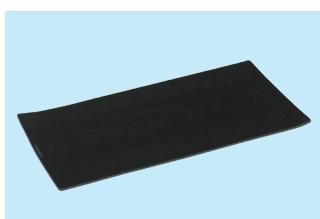
## SHEET STOCK

7" x 7"



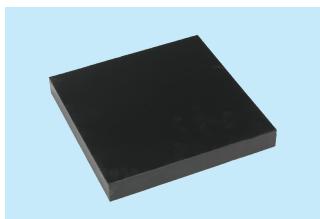
## SHEET STOCK

6" x 12"



## SHEET STOCK

12" x 12"



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0208047-40-10	0.040	$\pm 0.007$	40	
0208047-50-10	0.040	$\pm 0.007$	50	
0208047-60-10	0.040	$\pm 0.007$	60	
0208047-70-10	0.040	$\pm 0.007$	70	

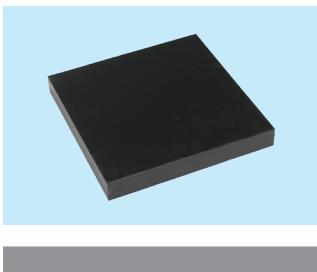
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0206109-40-10	0.100	$\pm 0.015$	40	
0206109-50-10	0.100	$\pm 0.015$	50	
0206109-60-10	0.100	$\pm 0.015$	60	
0206109-70-10	0.100	$\pm 0.015$	70	
0206111-40-10	0.125	$\pm 0.020$	40	
0206111-50-10	0.125	$\pm 0.020$	50	
0206111-60-10	0.125	$\pm 0.020$	60	
0206111-70-10	0.125	$\pm 0.020$	70	
0206118-30-10	0.188	$\pm 0.020$	30	
0206118-40-10	0.188	$\pm 0.020$	40	
0206118-50-10	0.188	$\pm 0.020$	50	
0206118-60-10	0.188	$\pm 0.020$	60	
0206118-70-10	0.188	$\pm 0.020$	70	
0206125-30-10	0.250	$\pm 0.025$	30	
0206125-40-10	0.250	$\pm 0.025$	40	
0206125-50-10	0.250	$\pm 0.025$	50	
0206125-60-10	0.250	$\pm 0.025$	60	
0206125-70-10	0.250	$\pm 0.025$	70	

PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0212010-40-10	0.100	$\pm 0.015$	40	
0212010-50-10	0.100	$\pm 0.015$	50	
0212010-60-10	0.100	$\pm 0.015$	60	
0212010-70-10	0.100	$\pm 0.015$	70	
0212012-40-10	0.125	$\pm 0.020$	40	
0212012-50-10	0.125	$\pm 0.020$	50	
0212012-60-10	0.125	$\pm 0.020$	60	
0212012-70-10	0.125	$\pm 0.020$	70	

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## SHEET STOCK

**12" x 12"** *continued*



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0212018-30-10	0.188	$\pm 0.020$	30	
0212018-40-10	0.188	$\pm 0.020$	40	
0212018-50-10	0.188	$\pm 0.020$	50	
0212018-60-10	0.188	$\pm 0.020$	60	
0212018-70-10	0.188	$\pm 0.020$	70	
0212025-30-10	0.250	$\pm 0.025$	30	
0212025-40-10	0.250	$\pm 0.025$	40	
0212025-50-10	0.250	$\pm 0.025$	50	
0212025-60-10	0.250	$\pm 0.025$	60	
0212025-70-10	0.250	$\pm 0.025$	70	
0212037-30-10	0.375	$\pm 0.025$	30	
0212037-40-10	0.375	$\pm 0.025$	40	
0212037-50-10	0.375	$\pm 0.025$	50	
0212037-60-10	0.375	$\pm 0.025$	60	
0212037-70-10	0.375	$\pm 0.025$	70	
0212050-30-10	0.500	$\pm 0.035$	30	
0212050-40-10	0.500	$\pm 0.035$	40	
0212050-50-10	0.500	$\pm 0.035$	50	
0212050-60-10	0.500	$\pm 0.035$	60	
0212050-70-10	0.500	$\pm 0.035$	70	
0212062-30-10	0.625	$\pm 0.035$	30	
0212062-40-10	0.625	$\pm 0.035$	40	
0212062-50-10	0.625	$\pm 0.035$	50	
0212062-60-10	0.625	$\pm 0.035$	60	
0212062-70-10	0.625	$\pm 0.035$	70	
0212075-30-10	0.750	$\pm 0.040$	30	
0212075-40-10	0.750	$\pm 0.040$	40	
0212075-50-10	0.750	$\pm 0.040$	50	
0212075-60-10	0.750	$\pm 0.040$	60	
0212075-70-10	0.750	$\pm 0.040$	70	
0212100-30-10	1.000	$\pm 0.060$	30	
0212100-40-10	1.000	$\pm 0.060$	40	
0212100-50-10	1.000	$\pm 0.060$	50	
0212100-60-10	1.000	$\pm 0.060$	60	
0212100-70-10	1.000	$\pm 0.060$	70	
0212150-30-10	1.500	$\pm 0.075$	30	
0212150-40-10	1.500	$\pm 0.075$	40	
0212150-50-10	1.500	$\pm 0.075$	50	
0212150-60-10	1.500	$\pm 0.075$	60	
0212150-70-10	1.500	$\pm 0.075$	70	

## SHEET STOCK

24" x 24"

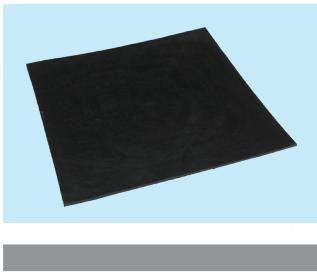


PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0224012-40-10	0.125	$\pm 0.025$	40	
0224012-50-10	0.125	$\pm 0.025$	50	
0224012-60-10	0.125	$\pm 0.025$	60	
0224012-70-10	0.125	$\pm 0.025$	70	
0224018-40-10	0.188	$\pm 0.030$	40	
0224018-50-10	0.188	$\pm 0.030$	50	
0224018-60-10	0.188	$\pm 0.030$	60	
0224018-70-10	0.188	$\pm 0.030$	70	
0224025-30-10	0.250	$\pm 0.040$	30	
0224025-40-10	0.250	$\pm 0.040$	40	
0224025-50-10	0.250	$\pm 0.040$	50	
0224025-60-10	0.250	$\pm 0.040$	60	
0224025-70-10	0.250	$\pm 0.040$	70	
0224037-30-10	0.375	$\pm 0.040$	30	
0224037-40-10	0.375	$\pm 0.040$	40	
0224037-50-10	0.375	$\pm 0.040$	50	
0224037-60-10	0.375	$\pm 0.040$	60	
0224037-70-10	0.375	$\pm 0.040$	70	
0224050-30-10	0.500	$\pm 0.045$	30	
0224050-40-10	0.500	$\pm 0.045$	40	
0224050-50-10	0.500	$\pm 0.045$	50	
0224050-60-10	0.500	$\pm 0.045$	60	
0224050-70-10	0.500	$\pm 0.045$	70	
0224062-30-10	0.625	$\pm 0.060$	30	
0224062-40-10	0.625	$\pm 0.060$	40	
0224062-50-10	0.625	$\pm 0.060$	50	
0224062-60-10	0.625	$\pm 0.060$	60	
0224062-70-10	0.625	$\pm 0.060$	70	
0224075-30-10	0.750	$\pm 0.060$	30	
0224075-40-10	0.750	$\pm 0.060$	40	
0224075-50-10	0.750	$\pm 0.060$	50	
0224075-60-10	0.750	$\pm 0.060$	60	
0224075-70-10	0.750	$\pm 0.060$	70	

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## SHEET STOCK

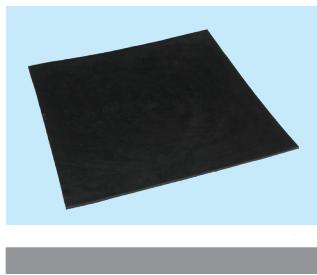
**24" x 24" continued**



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0224100-30-10	1.000	$\pm 0.070$	30	
0224100-40-10	1.000	$\pm 0.070$	40	
0224100-50-10	1.000	$\pm 0.070$	50	
0224100-60-10	1.000	$\pm 0.070$	60	
0224100-70-10	1.000	$\pm 0.070$	70	
0224150-30-10	1.50	$\pm 0.075$	30	
0224150-40-10	1.50	$\pm 0.075$	40	
0224150-50-10	1.50	$\pm 0.075$	50	
0224150-60-10	1.50	$\pm 0.075$	60	
0224150-70-10	1.50	$\pm 0.075$	70	

## SHEET STOCK

**25" x 25"**

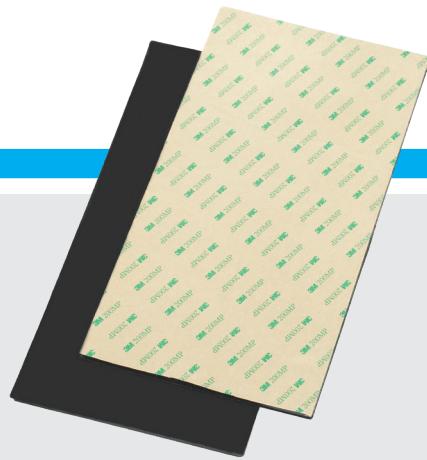


PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0225012-40-10	0.125	$\pm 0.025$	40	
0225012-50-10	0.125	$\pm 0.025$	50	
0225012-60-10	0.125	$\pm 0.025$	60	
0225012-70-10	0.125	$\pm 0.025$	70	
0225018-40-10	0.188	$\pm 0.030$	40	
0225018-50-10	0.188	$\pm 0.030$	50	
0225018-60-10	0.188	$\pm 0.030$	60	
0225018-70-10	0.188	$\pm 0.030$	70	
0225025-30-10	0.250	$\pm 0.040$	30	
0225025-40-10	0.250	$\pm 0.040$	40	
0225025-50-10	0.250	$\pm 0.040$	50	
0225025-60-10	0.250	$\pm 0.040$	60	
0225025-70-10	0.250	$\pm 0.040$	70	
0225037-30-10	0.375	$\pm 0.040$	30	
0225037-40-10	0.375	$\pm 0.040$	40	
0225037-50-10	0.375	$\pm 0.040$	50	
0225037-60-10	0.375	$\pm 0.040$	60	
0225037-70-10	0.375	$\pm 0.040$	70	
0225050-30-10	0.500	$\pm 0.045$	30	
0225050-40-10	0.500	$\pm 0.045$	40	
0225050-50-10	0.500	$\pm 0.045$	50	
0225050-60-10	0.500	$\pm 0.045$	60	
0225050-70-10	0.500	$\pm 0.045$	70	

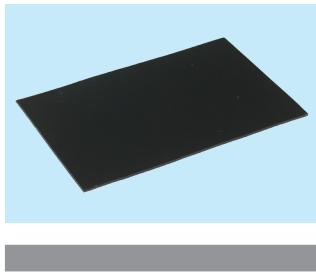
**Sorbothane®**

# Sheet Stock with PSA

Sorbothane® Sheets with PSA are available in several sizes, thicknesses and durometers. Sheet Stock can be knife-cut, scissor-cut, die cut or water jet cut. The aggressive pressure sensitive adhesive features a thin polyester film for dimensional stability and improved handling. The adhesive demonstrates exceptional temperature and chemical resistance. Firm application pressure and the amount of adhesive-to-surface contact combine to develop a strong bond.

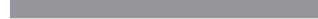
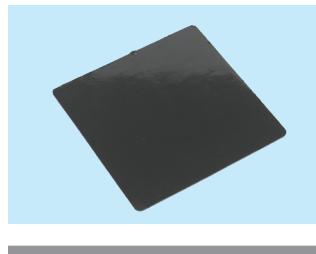


## **SHEET STOCK** *4" x 6" with PSA*



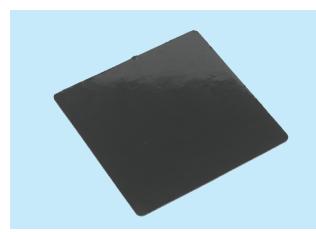
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0208045-40-10	0.040	$\pm 0.010$	40	
0208045-50-10	0.040	$\pm 0.010$	50	
0208045-60-10	0.040	$\pm 0.010$	60	
0208045-70-10	0.040	$\pm 0.010$	70	
0208065-40-10	0.060	$\pm 0.010$	40	
0208065-50-10	0.060	$\pm 0.010$	50	
0208065-60-10	0.060	$\pm 0.010$	60	
0208065-70-10	0.060	$\pm 0.010$	70	

## **SHEET STOCK** *6" x 6" with PSA*



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0206081-40-10	0.080	$\pm 0.015$	40	
0206081-50-10	0.080	$\pm 0.015$	50	
0206081-60-10	0.080	$\pm 0.015$	60	
0206081-70-10	0.080	$\pm 0.015$	70	

## **SHEET STOCK** *7" x 7" with PSA*



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0208049-40-10	0.040	$\pm 0.007$	40	
0208049-50-10	0.040	$\pm 0.007$	50	
0208049-60-10	0.040	$\pm 0.007$	60	
0208049-70-10	0.040	$\pm 0.007$	70	

**SHEET STOCK**  
6" x 12" with PSA



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0206110-40-10	0.100	$\pm 0.020$	40	
0206110-50-10	0.100	$\pm 0.020$	50	
0206110-60-10	0.100	$\pm 0.020$	60	
0206110-70-10	0.100	$\pm 0.020$	70	
0206112-40-10	0.125	$\pm 0.025$	40	
0206112-50-10	0.125	$\pm 0.025$	50	
0206112-60-10	0.125	$\pm 0.025$	60	
0206112-70-10	0.125	$\pm 0.025$	70	
0206119-30-10	0.188	$\pm 0.025$	30	
0206119-40-10	0.188	$\pm 0.025$	40	
0206119-50-10	0.188	$\pm 0.025$	50	
0206119-60-10	0.188	$\pm 0.025$	60	
0206119-70-10	0.188	$\pm 0.025$	70	
0206126-30-10	0.250	$\pm 0.025$	30	
0206126-40-10	0.250	$\pm 0.025$	40	
0206126-50-10	0.250	$\pm 0.025$	50	
0206126-60-10	0.250	$\pm 0.025$	60	
0206126-70-10	0.250	$\pm 0.025$	70	

IMPACT CAN DESTROY AN OBJECT  
OR A SINGLE ELEMENT OF THAT OBJECT



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**INNOVATING SHOCK & VIBRATION SOLUTIONS**

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for Design Guide and  
Technical Data

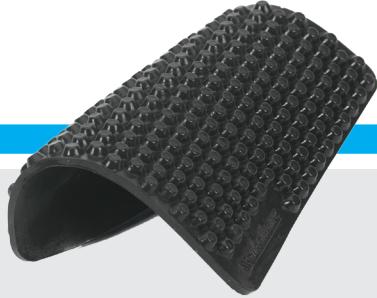
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**Sorbothane®**

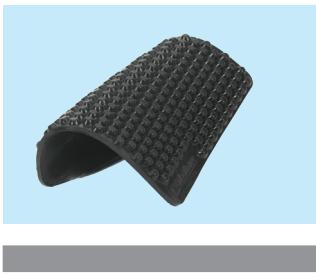
# X-Tra Flex Sheet Stock

X-Tra Flex Sheet is molded with hemispherical bumps. The hemispheres permit the material to flex more easily and allow for soft deformation under load.



## **SHEET STOCK**

**X-Tra Flex**  
**12" x 14"**



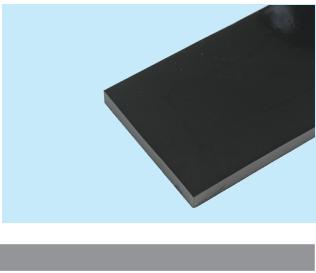
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0225532-40-10	0.19	$\pm 0.025$	40	
0225532-50-10	0.19	$\pm 0.025$	50	
0225532-60-10	0.19	$\pm 0.025$	60	
0225532-70-10	0.19	$\pm 0.025$	70	

## **Sorbothane®** **Strips**

Sorbothane® Strips offer a quick and effective method for isolating a wide variety of equipment. Choose the correct thickness, durometer and number of Strips required for the load. Sorbothane® Strips can easily be cut to size and are ideal for medium to heavy loads.



**STRIPS**  
**2" x 36"**



PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0236212-50-10	0.125	$\pm 0.015$	50	
0236212-70-10	0.125	$\pm 0.015$	70	
0236225-50-10	0.25	$\pm 0.020$	50	
0236225-70-10	0.25	$\pm 0.020$	70	
0236237-30-10	0.375	$\pm 0.025$	30	
0236237-50-10	0.375	$\pm 0.025$	50	
0236237-70-10	0.375	$\pm 0.025$	70	
0236250-30-10	0.50	$\pm 0.030$	30	
0236250-50-10	0.50	$\pm 0.030$	50	
0236250-70-10	0.50	$\pm 0.030$	70	

Sorbothane®

# Ergonomic Products

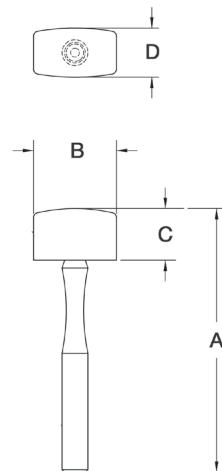


## Soft-Blow Mallet

- No-Denting • No-Marring • No-Jarring

The **Sorbothane® Soft-Blow Mallet** actually conforms to surface irregularities, providing maximum contact without denting or marring surface. Because impact is dissipated within the **Sorbothane®** material - hand jarring and harmful shock - is virtually eliminated. Commonly used for fine woodworking, window installation, remodeling and auto body repair - to name a few.

Three sizes available to fit any job - safe for use on wood, metal, vinyl, tile, glass and plastic.



PART NUMBER	DIMENSIONS				DURO	STOCK ITEM	HEAD WEIGHT
	A	B	C	D			
0575496-70-20	11.00	2.88	1.78	1.83	70	•	5.5 oz. Small
0575490-70-20	12.75	3.94	2.50	2.25	70	•	12 oz. Medium
0575485-70-20	13.00	4.35	2.75	2.73	70	•	20 oz. Large



## Sorbothane® Performance Insoles

Sorbothane® insoles provide impact shock protection, cushioning comfort and long lasting performance. An excellent choice for anyone who walks, runs, competes, or just spends time on their feet - **Sorbothane®** Comfort & Performance Insoles are 100% Made In The USA.

Please call **800.838.3906** or visit [www.insoles-sorbothane.com](http://www.insoles-sorbothane.com) for complete product information.

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