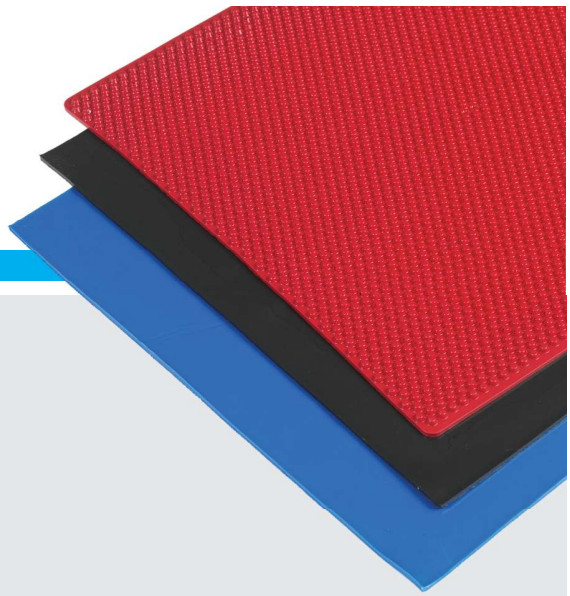
Sorbothane®

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

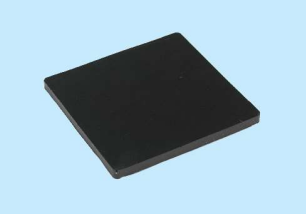
Sheet Stock for Vibration Applications

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

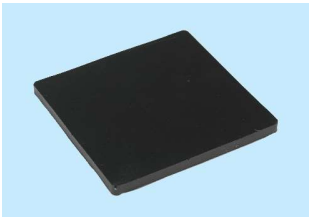
4" x 4"



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

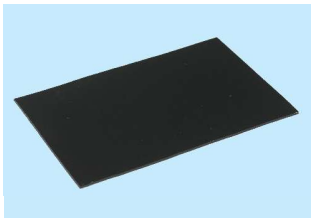
SMALL SHEET STOCK

5" x 5"



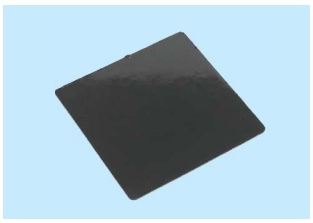
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0205025-30-10	0.25	±0.025	30	
0205025-50-10	0.25	±0.025	50	
0205025-70-10	0.25	±0.025	70	
0205050-30-10	0.50	±0.035	30	
0205050-50-10	0.50	±0.035	50	
0205050-70-10	0.50	±0.035	70	

SHEET STOCK
4″ x 6″



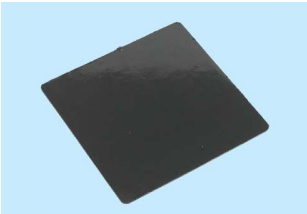
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0208040-40-10	0.040	±0.007	40	
0208040-50-10	0.040	±0.007	50	
0208040-60-10	0.040	±0.007	60	
0208040-70-10	0.040	±0.007	70	
0208060-40-10	0.060	±0.007	40	
0208060-50-10	0.060	±0.007	50	
0208060-60-10	0.060	±0.007	60	
0208060-70-10	0.060	±0.007	70	

SHEET STOCK
6″ x 6″



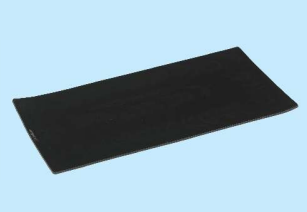
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0206080-40-10	0.080	±0.015	40	
0206080-50-10	0.080	±0.015	50	
0206080-60-10	0.080	±0.015	60	
0206080-70-10	0.080	±0.015	70	
0266025-30-10	0.25	±0.025	30	
0266025-40-10	0.25	±0.025	40	
0266025-50-10	0.25	±0.025	50	
0266025-60-10	0.25	±0.025	60	
0266025-70-10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

SHEET STOCK
7″ x 7″



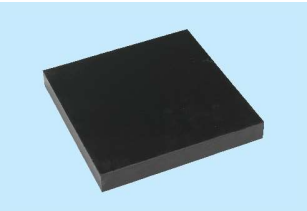
PART NUMBER	THICKNESS	THICKNESS TOLERANCE	DURO	NOTES
0208047-40-10	0.040	±0.007	40	
0208047-50-10	0.040	±0.007	50	
0208047-60-10	0.040	±0.007	60	
0208047-70-10	0.040	±0.007	70	

SHEET STOCK
6″ x 12″



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

SHEET STOCK
12″ x 12″



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

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