

# Sheet Stock & Die-Cut Parts

## Sheet Stock

Almost every Chomerics commercial-grade elastomer material is available in sheet form. We are able to meet most requirements with the standard sizes and thicknesses shown in Table 2. For sizes not shown, contact Chomerics' Sales Department.

## Adhesive Backing

All standard *silicone* sheets of 0.032 inch (0.81 mm) thickness or greater are available with a thin, non-conductive pressure-sensitive adhesive backing (PSA). This adhesive increases gasket volume resistivity and interface flange resistance, with a corresponding reduction in shielding effectiveness (generally 5-10 dB). Performance and property specifications included in this catalog are for materials without adhesive backing.

## Custom Die-Cut Parts

Custom parts can be die-cut by Chomerics or our Authorized Fabricators from any standard sheet stock. Please provide a sketch or drawing (see Table 1 for tolerances). Chomerics' part number for custom die-cut parts is

19-11-XXXX-ZZZZ

where XXXX is a sequential engineering drawing number assigned by Chomerics, and ZZZZ is the material designation (1350, S6304, etc.).

## Custom Sheets

For applications where standard CHO-SEAL and CHO-SIL sheets are not suitable, Chomerics can satisfy the following requirements:

1. Special materials can be compounded to provide specific physical or chemical properties.
2. Custom sizes can be molded from 0.020 inch (0.51 mm) to 0.125 inch (3.18 mm) for most CHO-SEAL materials. Minimum thickness for CHO-SIL 1485 is 0.032 inch (0.81 mm).
3. Custom sizes can be cut.



## Ordering Procedure

Select the part number from Table 2. The last four or five digits designate the material. For "TA" in the part number, select the desired thickness and adhesive option from the blocks below the table. *For custom sizes or thicknesses, part numbers will be assigned by Chomerics.*

## General Tolerances

The following table provides general tolerances for flat die-cut conductive elastomer gaskets. It is important to note that *all flat die-cut, molded, and extruded gaskets are subject to free-state variation in the unrestrained condition.* The use of inspection fixtures to verify conformance of finished parts is common and recommended where appropriate.

Also note that "Overall Dimensions" for flat die-cut gaskets include any feature-to-feature dimensions (e.g., edge-to-edge, edge-to-hole, hole-to-hole).

Table 1

FLAT DIE-CUT GASKETS <i>inch (mm)</i>	TOLERANCE
<b>Overall Dimensions</b>	
≤10 (254)	±0.010 (0.25)
>10 to ≤15 (254 to 381)	±0.020 (0.51)
>15 (>381)	±0.20% Nom. Dim.
<b>Thickness</b>	
0.020 (0.51)	±0.004 (0.10)
0.032 (0.81)	±0.005 (0.13)
0.045 (1.14)	±0.006 (0.15)
0.062 (1.57)	±0.007 (0.18)
0.093 (2.36)	±0.010 (0.25)
0.125 (3.18)	±0.010 (0.25)
>0.125 (>3.18)	Contact a Chomerics Applications or Sales Engineer
<b>Hole Diameters</b>	
>0.060 (1.52) dia. if sheet thickness is...	
≤0.062 (1.57)	±0.005 (0.13)
>0.062 (1.57)	±0.008 (0.20)

**Table 2**

STANDARD SHEET STOCK SIZE							
Part Number*	Sheet Size inches (cm)	AVAILABILITY BY THICKNESS					
		0.020 ±0.004 (0.51 ±0.10)	0.032 ±0.005 (0.81 ±0.13)	0.045 ±0.006 (1.14 ±0.15)	0.062 ±0.007 (1.57 ±0.18)	0.093 ±0.010 (2.36 ±0.25)	0.125 ±0.010 (3.18 ±0.25)
40-TA-1010-1212	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1212	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1212	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1212	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-1010-1215	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1215	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1215	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1215	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-2030-1215	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
40-TO-1010-1217	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TO-1015-1217	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TO-1020-1217	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TO-1520-1217	15 x 20 (38.1 x 50.8)	NA	NA	NA	✓	✓	✓
40-TO-2030-1217	20 x 30 (50.8 x 76.2)	NA	NA	NA	✓	✓	✓
40-TO-1010-1221	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TO-1015-1221	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TO-1020-1221	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TO-1520-1221	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TO-2030-1221	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
40-TA-1010-1224	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1224	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1224	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1224	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-2030-1224	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
40-TA-1010-1273	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1273	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1273	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1273	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-2030-1273	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
40-TA-1010-1285	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1285	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1285	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1285	15 x 20 (38.1 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-2030-1285	20 x 30 (50.8 x 76.2)	✓	✓	✓	✓	✓	✓
40-TO-1010-1287	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TO-1015-1287	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TO-1020-1287	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TO-1520-1287	15 x 20 (38.1 x 50.8)	✓	NA	NA	✓	✓	✓
40-TA-1010-1291	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1291	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1291	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1291	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-2030-1291	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
40-TO-1010-1298	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TO-1015-1298	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TO-1020-1298	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TO-1520-1298	15 x 20 (38.1 x 50.8)	NA	NA	NA	✓	✓	✓
40-TA-1010-1310	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1310	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1310	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1310	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-2030-1310	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓

✓ Available NA = Not Available  
 \* TA refers to thickness and adhesive options (at right).

For sizes other than those shown, change 5th through 8th digits in Part Number to reflect desired size (e.g., 0415 is a 4 in. x 15 in. size).

<p><b>THICKNESS, inch (mm)</b></p> <p><b>1</b> 0.020 (0.51)  <b>2</b> 0.032 (0.81)  <b>3</b> 0.062 (1.57)  <b>4</b> 0.093 (2.36)  <b>5</b> 0.125 (3.18)  <b>6</b> 0.045 (1.14)</p>	<p>T A</p> <p>←              →</p>	<p><b>ADHESIVE (PSA)</b></p> <p><b>0</b> No Adhesive  <b>1</b> Adhesive Backing</p> <p>Adhesive is not available on fluorosilicone materials 1217, 1221, 1287, 1298, E6306, E6434, L6303, and V6433 or on CHO-SEAL 1501, or on any sheets thinner than 0.032 inch (0.81mm).</p>
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(mm dimensions in parentheses)

continued



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**Table 2** *continued*

STANDARD SHEET STOCK SIZE							
Part Number*	Sheet Size inches (cm)	AVAILABILITY BY THICKNESS					
		0.020 ±0.004 (0.51 ±0.10)	0.032 ±0.005 (0.81 ±0.13)	0.045 ±0.006 (1.14 ±0.15)	0.062 ±0.007 (1.57 ±0.18)	0.093 ±0.010 (2.36 ±0.25)	0.125 ±0.010 (3.18 ±0.25)
40-TA-1010-1350	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-1350	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-1350	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-1350	15 x 20 (38.1 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-2030-1350	20 x 30 (50.8 x 76.2)	✓	✓	✓	✓	✓	✓
41-TA-1010-1401	10 x 10 (25.4 x 25.4)	NA	✓	✓	✓	✓	✓
41-TA-1015-1401	10 x 15 (25.4 x 38.1)	NA	✓	✓	✓	✓	✓
41-TA-1020-1401	10 x 20 (25.4 x 50.8)	NA	✓	✓	✓	✓	✓
41-TA-1520-1401	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
41-TA-2030-1401	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
41-TA-1010-1485	10 x 10 (25.4 x 25.4)	NA	✓	✓	✓	✓	✓
41-TA-1015-1485	10 x 15 (25.4 x 38.1)	NA	✓	✓	✓	✓	✓
41-TA-1020-1485	10 x 20 (25.4 x 50.8)	NA	✓	✓	✓	✓	✓
41-TA-1520-1485	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
41-TA-2030-1485	20 x 30 (50.8 x 76.2)	NA	✓	✓	✓	✓	✓
43-TO-1010-1501	10 x 10 (25.4 x 25.4)	NA	✓	✓	✓	✓	✓
43-TO-1015-1501	10 x 15 (25.4 x 38.1)	NA	✓	✓	✓	✓	✓
40-TO-1010-E6306	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TO-1015-E6306	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TO-1020-E6306	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TO-1010-E6434	10 x 10 (25.4 x 25.4)	NA	✓	✓	✓	✓	✓
40-TO-1015-E6434	10 x 15 (25.4 x 38.1)	NA	✓	✓	✓	✓	✓
40-TO-1020-E6434	10 x 20 (25.4 x 50.8)	NA	✓	✓	✓	✓	✓
40-TO-1010-L6303	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TO-1015-L6303	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TO-1020-L6303	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TO-1520-L6303	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-1010-S6304	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-S6304	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-S6304	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-S6304	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-1010-S6305	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-S6305	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-S6305	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-S6305	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-1010-6370	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-6370	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-6370	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-6370	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TO-1010-V6433	10 x 10 (25.4 x 25.4)	NA	✓	✓	✓	✓	✓
40-TO-1015-V6433	10 x 15 (25.4 x 38.1)	NA	✓	✓	✓	✓	✓
40-TO-1020-V6433	10 x 20 (25.4 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-1010-S6600	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-S6600	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-S6600	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-S6600	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓
40-TA-1010-S6602	10 x 10 (25.4 x 25.4)	✓	✓	✓	✓	✓	✓
40-TA-1015-S6602	10 x 15 (25.4 x 38.1)	✓	✓	✓	✓	✓	✓
40-TA-1020-S6602	10 x 20 (25.4 x 50.8)	✓	✓	✓	✓	✓	✓
40-TA-1520-S6602	15 x 20 (38.1 x 50.8)	NA	✓	✓	✓	✓	✓

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 \* TA refers to thickness and adhesive options (at right).

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<p><b>THICKNESS, inch (mm)</b></p> <p><b>1</b> 0.020 (0.51)  <b>2</b> 0.032 (0.81)  <b>3</b> 0.062 (1.57)  <b>4</b> 0.093 (2.36)  <b>5</b> 0.125 (3.18)  <b>6</b> 0.045 (1.14)</p>		<p><b>ADHESIVE (PSA)</b></p> <p><b>0</b> No Adhesive  <b>1</b> Adhesive Backing</p> <p>Adhesive is not available on fluorosilicone materials 1217, 1221, 1287, 1298, E6306, E6434, L6303, and V6433 or on CHO-SEAL 1501, or on any sheets thinner than 0.032 inch (0.81mm).</p>
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(mm dimensions in parentheses)