Solid Silicone Rubber (Sheets)

Saint-Gobain NORSEAL® 300-700 series silicone solid is a general purpose silicone rubber manufactured in 36 in. x 36 in. sheets. It is available in degrees of hardness ranging from relatively soft 30 durometer to relatively hard 70 durometer on the Shore A scale. It is manufactured in different formulations to provide a choice of physical properties and cost considerations. NORSEAL 300-700 series withstands temperatures from -100°F to +500°F. Other benefits include extremely long life, gasket reliability and non-toxicity.

NORSEAL solid silicone products are specially designed to provide the following features:
• Smooth, defect-free surface
• Low compression set
• Low outgassing
• Excellent release characteristics
• Long service life
• Good chemical and fluid resistance
• Capable of meeting ZZ-R-765, class 2A and 2B
• Capable of meeting specification AMS-3300

Available Sizes

Standard thickness: .031, .063, .094, .125, .25 and .5 in.
Sheet size: 36 in. x 36 in. (914 mm x 914 mm)
Special thickness and roll sizes also available.

Applications

• MRI/CAT scan cabinets
• Flood lights and spotlights
• Commercial appliances
• Dielectric barriers
• L bar sealer
• Solder equipment
• Kitchen cabinetry
NORSEAL® 300-700 Series – Properties
(COHRLastic® 300-700)
Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Durometer: Shore A</td>
<td>ASTM D2240</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
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<tr>
<td>Tensile Strength: psi</td>
<td>ASTM D412</td>
<td>850</td>
<td>900</td>
<td>900</td>
<td>700</td>
<td>750</td>
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<tr>
<td>Tear Strength</td>
<td>ASTM D624</td>
<td>40</td>
<td>80</td>
<td>75</td>
<td>50</td>
<td>65</td>
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<tr>
<td>Elongation: %</td>
<td>ASTM D412</td>
<td>500</td>
<td>500</td>
<td>400</td>
<td>200</td>
<td>160</td>
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<tr>
<td>Compression Set: %, 70 hours@302°F</td>
<td>ASTM 395</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Dielectric Strength: volts/mil</td>
<td>—</td>
<td>500</td>
<td>500</td>
<td>500</td>
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<tr>
<td>Thermal Conductivity: BTU, in./hr.ft.°F</td>
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<td>1.3</td>
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<tr>
<td>Temperature Range: °F</td>
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<td>-100 – +500</td>
<td>-100 – +500</td>
<td>-100 – +500</td>
<td>-100 – +500</td>
<td>-100 – +500</td>
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<tr>
<td>Color</td>
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<td>Red</td>
<td>Red/Black</td>
<td>Red</td>
<td>Red</td>
</tr>
</tbody>
</table>

Options (subject to minimum order requirements)
Acrylic (or silicone) pressure-sensitive adhesive (PSA) available in sheet format only (see NORSEAL Silicone Elastomer Adhesive Option data page for details).

Important Instructions
• Because Saint-Gobain cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.
• When using PSA option, surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface. Do not remove liner until tape is in proper position. Avoid touching adhesive surface before application.
• Recommended service temperature of the silicone elastomer is between -100°F to 500°F (-73°C to 260°C).

Shelf Life
10 years after the date of sale for base material when stored in original packaging at temperatures up to 70°F (21°C) and 50% relative humidity (for optional PSA, see other data sheets).