Flat Panel Gaskets
Sealing Solutions for Groove-less Applications

Non-Groove Sealing:

Parker’s flat panel gaskets are extruded and spliced seals that have pressure-sensitive adhesive (PSA) backing. The PSA-backed gaskets are ideal sealing solutions for flat panel, groove-less applications, where machined or cast grooves are not practical due to thin cabinet covers. The existing applications are not able to be retrofitted to accommodate a groove. The gaskets must be capable of passing a wind-driven rain test, as they are most commonly used as environmental sealing for outdoor enclosures. The PSA can be applied to most standard extruded profiles that are typically hollow and have a flat surface, such as hollow and solid D, hollow and solid square, rectangle, U-channel, and Omega profiles. Other custom profiles with a flat surface are also available upon request.

Contact Information:
Parker Hannifin Corporation
TechSeal Division
3070 Southport Road
Spartanburg, SC 29302
phone 864 573 7332
fax 864 583 4299
tsdmarketing@parker.com
www.parker.com/techseal

Product Features:

• PSA backing for non-groove sealing
• Easy installation and uninstallation
• Hollow profiles providing low closure force sealing
• Standard and custom profiles are available in forms of frame gaskets, spliced rings and custom-shaped seals
• Custom design and dimensions
Pressure Sensitive Adhesive

TechSeal offers two types of PSA: standard temperature (ST) and high temperature (HT). The minimum extruded cross-sectional width for PSA to be applied on is 0.125” [3.18mm].

### Standard PSA Widths Available

|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|

### Typical Peel Strength

<table>
<thead>
<tr>
<th>Property</th>
<th>Aluminum</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Peel Strength</td>
<td>6.0 PPI</td>
<td>6.0 PPI</td>
</tr>
<tr>
<td>Heat Aged</td>
<td>5.4 PPI</td>
<td>5.4 PPI</td>
</tr>
<tr>
<td>Humidity Aged</td>
<td>6.0 PPI</td>
<td>6.0 PPI</td>
</tr>
</tbody>
</table>

*Peel Strength Test Data per ttt D1000 (90° peel)
*Heat ageing 168 hrs / 158°F [70°C]
**Humidity ageing 168 hrs / 95% RH / 158°F [70°C]

### Standard Temperature PSA:

- **PSA Description:** Double-coated acrylic tape
- **Release Liner:** Blue polypropylene plastic
- **Service Temp Range:** -40° to 150°F [-40° to 66°C]. PSA will function for short periods of time, e.g., 200 hrs at 200°F [94°C]. Ultimate high temp limit 250°F [121°C]
- **Shelf Life Conditions:** 1 year at 70°F [21°C] / 50% RH
- **Application Temp Range:** 40° to 150°F [4° to 66°C]

### High Temperature PSA:

- **PSA Description:** High performance silicone
- **Release Liner:** 84 lb. siliconized polycoated kraft paper
- **Service Temp Range:** -130° to 500°F [-90° to 260°C]
- **Shelf Life Conditions:** 1 year at 70°F [21°C] / 50% RH
- **Application Temp Range:** 40° to 150°F [4° to 66°C]

Installing PSA-Backed Gaskets

Detailed, step-by-step instructions cover proper preparation for installation can be found in TechSeal’s ParFab™ Design Guide (TSD 5420), pages 4-6.