**FEATURES & BENEFITS**

- Crystal clear, transparent, high strength silicone film adhesive for point fixed frameless glazing applications
- 1.3MPa (190 psi) dynamic design stress, 9.5 times higher compared to conventional structural glazing silicones
- 0.6 MPa (90 psi) dead load design stress
- Silicone film adhesive – clean non-messy application
- Suitable for factory glazing with cure in an autoclave
- Precatalyzed, ready to cure
- No by-products during cure
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- No by-products during cure
- UV- and weather resistant
- Excellent, wide range temperature stability suitable for exterior facades: -50°C (-58°F) to +150°C (+300°F)
- Ready to use 50mm (2 inch) diameter circular buttons
- No glass drilling allows for uninterrupted glass interlayers
- Suitable for use with laminated glass
- Can be cured simultaneously with PVB and DuPont™’s SentryGlas® Plus interlayers
- Suitable for annealed, heat strengthened and tempered glass
- Suitable for single and double glazed units
- Suitable for use with 316 alloy stainless steel
- Slim point fixing – for filigree façade aesthetics

**APPLICATIONS**

- **Dow Corning® TSSA** - Transparent Structural Silicone Adhesive is suitable for laminated glass with different functional interlayers as well as point fixed frameless systems with gas filled insulating glass units. **Dow Corning TSSA** provides a design strength for dynamic loads which is 9.5 times higher than a conventional structural glazing silicone.

**TYPICAL PROPERTIES**

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<table>
<thead>
<tr>
<th>Test</th>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>As supplied</td>
<td>Color</td>
<td></td>
<td>Crystal clear</td>
</tr>
<tr>
<td></td>
<td>Specific gravity</td>
<td>g/ml</td>
<td>1.01</td>
</tr>
<tr>
<td></td>
<td>Film Thickness</td>
<td>mm</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Curing Time at 120°C to 130°C</td>
<td>min</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>(250°F to 266°F)</td>
<td>(°C)</td>
<td>120 to 150</td>
</tr>
<tr>
<td></td>
<td>(°F)</td>
<td></td>
<td>(250 to 300)</td>
</tr>
<tr>
<td>As cured</td>
<td>Service temperature range</td>
<td>°C (°F)</td>
<td>-50 to 150</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(-58 to 300)</td>
</tr>
<tr>
<td>ASTM D2204</td>
<td>Durometer Hardness</td>
<td>A scale</td>
<td>75</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Maximum Tensile strength</td>
<td>MPa (psi)</td>
<td>8.5 (1230)</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Elongation at maximum tensile</td>
<td>%</td>
<td>250</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Modulus at origin</td>
<td>MPa (psi)</td>
<td>9 (1300)</td>
</tr>
<tr>
<td>ASTM D412</td>
<td>Tensile strength at 100% elongation</td>
<td>MPa (psi)</td>
<td>4.5 (650)</td>
</tr>
<tr>
<td>ASTM D3165</td>
<td>Shear strength in lap shear</td>
<td>MPa (psi)</td>
<td>5.7 (825)</td>
</tr>
<tr>
<td>ASTM D3165</td>
<td>Shear modulus in lap shear</td>
<td>MPa (psi)</td>
<td>2.5 (360)</td>
</tr>
<tr>
<td>As cured on typical hardware</td>
<td>Tensile strength 50mm button</td>
<td>MPa (psi)</td>
<td>4.5 (650)</td>
</tr>
<tr>
<td></td>
<td>Shear strength 50mm button</td>
<td>MPa (psi)</td>
<td>5.0 (725)</td>
</tr>
</tbody>
</table>

CTM: Corporate Test Method, copies of CTM’s are available on request.

**DESCRIPTION**

**Dow Corning TSSA** is for point fixed frameless glazing and an addition cure silicone requiring heat to cure. There are no by-products released during the curing process. The product must be kept refrigerated at temperatures below +5°C (41°F) until application and cure.

**HOW TO USE**

**Dow Corning TSSA** must only be applied by properly trained personnel per the Dow Corning Quality Bond program.
APPLICATION
Dow Corning TSSA is supplied in round shaped buttons and packaged between PETP layers which are removed prior to application.

Dow Corning TSSA has a designed tack to ensure the properly placed hardware will stay in place during autoclaving. A pre-shaped form tool is suggested to position buttons correctly before curing.

After heat cure, Dow Corning TSSA provides full strength and adhesion to substrates and is ready for erection.

CLEANING AND PRIMING
The technical manual for Dow Corning TSSA has detailed instructions on proper surface preparation for glass and metal substrates. Dow Corning® R40 Cleaner is recommended for cleaning of metal and glass surfaces. Alternatively, Isopropanol or Acetone may be used for cleaning. Please contact Dow Corning Technical Service for more information.

MAINTENANCE
No maintenance is needed once the adhesive has been properly applied and cured. If glass units need to be replaced or the Dow Corning® TSSA becomes damaged e.g. during installation, the adhesive can be cut and removed from the glass. After careful and proper cleaning, glass and hardware can be re-used.

HANDLING PRECAUTIONS
PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION, THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEB SITE AT DOWCORNING.COM, OR FROM your local Dow Corning representative.

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