ELASTOSIL® SC 835 A/B

Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL® SC 835 A/B is a flowable, addition-curing, two-component silicone rubber, forming a mainly closed cell foam. ELASTOSIL® SC 835 A/B is perfectly suited for processing with automatic dispensing equipment. It is suitable for heat resistant CIPG foam gaskets in flat design.

Properties

- low processing viscosity
- good processability on automated dispensing equipment
- easy control of mixing quality due to different colors of the components
- no ozone damaging blowing agents
- no release of toxic or strong smelling substances during foaming or curing
- low heat of reaction (max. 40 °C)
- low toxicity of thermal decomposition products
- long-term flexible over a temperature range of -50 °C to +200 °C
- good chemical resistance

Special features

- Compressible
- Foam
- Heat resistant
- Low compression set
- Two-component
Technical data

Properties Uncured

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>A</th>
<th>B</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, dynamic</td>
<td>23 °C</td>
<td>15000 mPa·s</td>
<td>15000 mPa·s</td>
<td>Brookfield</td>
</tr>
<tr>
<td>Density</td>
<td>23 °C</td>
<td>1.14 g/cm³</td>
<td>1.14 g/cm³</td>
<td>ISO 2811</td>
</tr>
<tr>
<td>Color</td>
<td>-</td>
<td>white</td>
<td>reddish brown</td>
<td>-</td>
</tr>
</tbody>
</table>

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Catalyzed A+B

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curing time</td>
<td>23 °C</td>
<td>24 h</td>
<td>-</td>
</tr>
<tr>
<td>Tack-free time</td>
<td>-</td>
<td>10 - 15 min</td>
<td>-</td>
</tr>
<tr>
<td>Pot life⁽¹⁾</td>
<td>-</td>
<td>240 s</td>
<td>-</td>
</tr>
<tr>
<td>Mix ratio⁽²⁾</td>
<td>-</td>
<td>1 : 1</td>
<td>A : B</td>
</tr>
</tbody>
</table>

⁽¹⁾Viscosity dynamic, D = 1 1/s; 25 °C, time to 100 Pa s
⁽²⁾(pbw)

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Properties Cured

24 h storage at 23 °C / 50 % RH.

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elongation at break</td>
<td>-</td>
<td>80 %</td>
<td>ISO 1798</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>-</td>
<td>450 kPa</td>
<td>ISO 1798</td>
</tr>
<tr>
<td>Hardness Shore A⁽¹⁾</td>
<td>-</td>
<td>20</td>
<td>ISO 868</td>
</tr>
<tr>
<td>Density</td>
<td>23 °C</td>
<td>0.4 - 0.45 g/cm³</td>
<td>ISO 2781</td>
</tr>
<tr>
<td>Color</td>
<td>-</td>
<td>reddish brown</td>
<td>-</td>
</tr>
</tbody>
</table>

⁽¹⁾(with skin)

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product’s fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties’ rights.
Applications

• Cured-In-Place-Gaskets (Dry Type)

Application details

• general purpose high and low temperature resistant sealing material
• suitable for sound and heat insulation
• shock and vibration damping at high temperature changes

Processing

ELASTOSIL® SC 835 A/B shows good primerless adhesion to many substrates (metals, glass, ceramics, PA, PBTP). If self-adhesion is not sufficient, surface treatment or a primer may be applied.

For processing we recommend to use automatic mixing and dispensing equipment with dynamic mixer, our technical service will give advice for proper selection.

The quality of the foam is highly influenced by processing parameters (e. g. addition of air, type of mixer) and environmental parameters. As ELASTOSIL® SC 835 A/B is an addition-curing system certain substances can inhibit the foaming and curing process. Our technical service will be glad to help to solve such problems.

We recommend to run preliminary tests to optimize conditions for the particular application.

Attention:
During foaming and curing hydrogen gas is evolved. Please ensure proper ventilation, if larger amounts of material are processed. Release of hydrogen is almost completed after 24 hours.

The platinum catalyst is contained in component A.

Caution:
Only components A and B that have the same lot number may be processed together!

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

According to the latest findings, the addition-curing silicone rubber ELASTOSIL® SC 835 A/B contains neither toxic or corrosive substances which would require special handling precautions.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site http://www.wacker.com.
For technical, quality or product safety questions, please contact:

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info@wacker.com, www.wacker.com

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