

ELASTOSIL[®] RT 426



Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL[®] RT 426 is a pourable, condensation-curing, two-component silicone rubber that vulcanizes at room temperature.

Main application: all-round potting compound

Properties

- Low viscosity
- High cured hardness
- Excellent heat resistance

Specific features

- Condensation-curing
- Flowable
- Heat resistant
- Two-component

Technical data

General Characteristics

| Property | Condition | Value | Method |
|--------------------|-----------|--------------------------------|------------|
| Density | 20 °C | approx. 1.44 g/cm ³ | DIN 53217 |
| Viscosity, dynamic | 23 °C | 15000 - 25000 mPa·s | Brookfield |

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

Properties Uncured

| Property | Condition | Value | Method |
|----------|-----------|---------------|--------|
| Color | - | reddish brown | - |

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

Catalyzed

(catalyzed with 3 wt % Catalyst T 37, after 4 days at 23 °C / 50 % rel. humidity)

| Property | Condition | Value | Method |
|--------------------|-----------|-------------|----------|
| Viscosity, dynamic | 23 °C | 10000 mPa·s | ISO 3219 |

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

Properties Cured

| Property | Condition | Value | Method |
|---------------------|-----------|------------------------|--------------|
| Density in water | 23 °C | 1.44 g/cm ³ | ISO 2781 |
| Tear strength | - | > 4 N/mm | ASTM D 624 B |
| Hardness Shore A | - | 60 | ISO 868 |
| Tensile strength | - | 4.5 N/mm ² | ISO 37 |
| Elongation at break | - | 120 % | ISO 37 |
| Linear shrinkage | - | 0.8 % | - |

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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

- Electrics & Electronics
- Electronics
- Encapsulation

Application details

- all-round potting compound

Processing

Catalyst T 37 is admixed to ELASTOSIL® RT 426 for long, and Catalyst T 40 for short pot lives and curing times.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions are given in our leaflet "ROOM TEMPERATURE VULCANIZING (RTV) SILICONES" – Material and Processing Guideline

| Catalyst | Pot life, approx. [min] | Curing time (tack-free), approx. [h] |
|----------|-------------------------|--------------------------------------|
| 3 % T 37 | 90 | 20-24 |
| 2 % T 40 | 40 | 3-4 |

The pot life is the period of time at 23 °C / 50 % rel. humidity during which the catalyzed mix to attain a viscosity of 100,000 mPa s and still be just pourable

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

Being a condensation-curing silicone rubber, ELASTOSIL® RT 426 contains only constituents that over many years have proved to be neither toxic nor aggressive. Special handling precautions are therefore not required, i.e., only the general industrial hygiene regulations apply.

Catalysts T 37 and T 40 contain a tetraorganotin compound, are flammable and may cause irritation in contact with the eyes and skin. Adequate protective measures are required.

Please check also our brochures and info sheets.

QR Code ELASTOSIL® RT 426



For technical, quality or product safety questions, please contact:

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