

ALPA-SIL 23101 2 part Silicone Moulding Rubber

Description

Transparent, two component silicone elastomer crosslinking through polycondensation reaction at room temperature.

Key Features

- Crosslinks at temperatures > 23 °C/77°F
- Mixing of components causes no problems
- Fast curing
- Suited to spray application

Use and Cure Information

Components A and B are mixed together at a mass ratio of 100 : 3. The two components are thoroughly mixed either by hand or with an electric or pneumatic stirrer at low speed to prevent air from being dragged in and/or the temperature from increasing. Crosslinking is slowed down by reducing the temperature and accelerated at a higher temperature. For an absolutely bubble-free vulcanisate the mixed silicone must be degassed under vacuum prior to casting (at the most for 5 min at 10 - 20 mbar). The viscosity can be increased up to stability by adding up to 1 weight per cent KÖRAFORM TM C to the catalysed compound. When casting critical substrates, e.g. glass, the release behaviour must be checked by carrying out your own trials. A silicone-free release agent may have to be possibly added. The tack-free time is approx. 20 - 25 hours.

Solvents and Cleaning Agents

For removing fresh compound KÖRASOLV GL can be used. We recommend letting cure residues in the stirring or casting vessel in order to scrape them off afterwards.

Storage

If stored properly, in tightly closed original containers between + 5 °C and 30 °C, ALPA-SIL 23101 can be optimally processed for at least six months.

If stored properly, in tightly closed original containers between + 5 °C and 30 °C, KÖRAFORM B 132 can be optimally processed for at least six months.

Health & Safety

Safety

Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

Delivery units: upon demand

Revision Date 29 Apr 2021
Revision No 1
Download Date 06 May 2021

Property

Uncured Product

Colour A Part
Colour B Part
Cure Type
Mix Ratio By Weight
Pot Life at 23°C/73°F

Viscosity A-Part mPas

Viscosity B-Part mPas

Viscosity Mixed mPas

Test Method

Brookfield
HBTD

Brookfield
HBTD

Brookfield
HBTD

Value

**Translucent
Transparent
Condensation
100:3
85 mins**

50000 mPas

50 mPas

48800 mPas

Cured Product

Standard climate DIN 50 014 - 23/50-2. Vulcanizate tested after 14 days

Colour **Transparent**
Elongation at Break (%) DIN 53 504, S 3 A **440 %**
Hardness Shore A DIN 53 505 **18 -23 (1 - 3 days)**
Tear Resistance (N/mm) ASTM D 624, Die B **23 N/mm / 132 ppi**
Tensile Strength (N/mm²) DIN 53 504, S 3 A **4.9 N/mm² / 711 psi**

Storage

Max Storage Temperature **30 °C / 86 °F**
Min Storage Temperature **5 °C / 41 °F**
Shelf Life (mths) **6**

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

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The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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