

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 KÖRAFÖRM 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.

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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 16 May 2022

Property

Uncured Product

Color A
Color B
Cure Type
Mix Ratio By Weight
Pot Life mins at 23°C/73°F
Viscosity A
Viscosity B
Viscosity Mixed

Test Method

Brookfield HBTD
Brookfield HBTD
Brookfield HBTD

Value

Translucent
Transparent
Condensation
100:3
85 mins
50000 cP
50 cP
48800 cP

Cured Product

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

Color
Elongation at Break
Hardness Shore A
Tear Resistance (N/mm)
Tensile Strength

DIN 53 504, S 3 A
DIN 53 505
ASTM D 624, Die B
DIN 53 504, S 3 A

Transparent
440 %
18 -23 (1 - 3 days)
23 N/mm / 132 ppi
4.9 N/mm² / 711 psi

Storage

Max Storage Temperature
Min Storage Temperature
Shelf Life

30 °C / 86 °F
5 °C / 41 °F
6 mths

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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