TECHNICAL DATA SHEET



Test Method Value

BS ISO 2781

BS ISO 2781

Brookfield

ISO 37

ISO 37

DIN 53 505

BS ISO 34-1

Addition

> 48 hours

340,000 cP

Light grey

250 %

< 0.1 %

18 N/mm / 103 ppi

5 N/mm2 / 725 psi

30 °C / 86 °F

6 mths

53

1.09

1.1

1:1

SilSo Resist 21004 2-part liquid silicone rubber

Property

Cure Type

Density A

Density B

Color

Uncured Product

Mix Ratio By Weight

Viscosity Mixed

Cured Product

Elongation at Break

Linear Shrinkage (%)

Tear Resistance (N/mm)

Hardness Shore A

Tensile Strength

Storage

Shelf Life

Max Storage

Temperature

Pot Life hrs at 23°C/73°F

Description

This is a two component silicone elastomer which crosslinks through polyaddition reaction. Particularly well suited for LSR applications. Generally processed with injection moulding equipment.

Product contains high molecular chains designed to increase chemical resistance to various water-based media.

Key Features

- Simple demoulding
- Low linear shrinkage
- Good compression recovery
- Crosslinking acceleration through temperature increase

Use and Cure Information IMPORTANT:

The 'A' part of the product contains the platinum catalyst. Great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it is advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.

Mixing

Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform. If utilizing machine-dispense, ensure the

mixing device has sufficient elements to fully homogenize the components of the formulation. Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite.

Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools are clean and constructed in materials which do not interfere with the curing mechanism. Certain substances may impair or even completely prevent the curing behaviour of addition crosslinking silicone. Typical indications are sticky surfaces between silicone and contact surfaces.

The following substances are particularly critical:

- substances containing nitrogen (amines, polyurethanes, epoxy resins)
- substances containing sulphur (polysulphides, polysulphones, natural and synthetic rubbers (EPDM))
- organometal compounds (organotin compounds, vulcanisates and hardeners of condensation crosslinking silicones)

Curing conditions

The rate of cure is significantly influenced by temperature. Therefore mixing of the components at temperatures between 15 and 25 °C is recommended to ensure adequate pot life for handling. Crosslinking is slowed down by reducing the temperature, whereas it is accelerated by increasing it. A curing teamperature range of 150 - 165°C is recommended. Prolonged exposure to temperatures above 170°C could damage the organic components of this hybrid LSR.

A detailed rheometer report can be made available upon request.

The end user must test in their application and process as the quantity of material, size of part, and method of applying heat will influence time and temperature requirements.

Health & Safety

Safety Data Sheets available on request.

Packaging

CHT silicone elastomers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

Revision Date	27 Mar 2024
Revision No	4
Download Date	08 May 2024

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.

CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. 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.

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com