

## SiSo CONNECT 21000 2 part heat curing silicone elastomer - electrically conductive

### Description

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

{{additional\_data}}

### Key Features

- Electrically conductive
- Non-corrosive
- Heat curing
- Low linear shrinkage

### Application

Smart textiles. Pressure sensors, RFI gaskets and shielding - application by coating or liquid injection moulding

### Use and Cure Information

Mix components A and B in accordance with the mix ratio shown opposite according to weight. The material is usually processed with liquid injection moulding machines.

Crosslinking and the speed of cure can be controlled by reducing the temperature to slow down the reaction or increasing the temperature to speed it up.

A detailed rheometer report can be made available upon request.

### Inhibition of the cure

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)

{{provisional\_how\_to\_use}}

### Health & Safety

Please observe our EC 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 EC 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

Safety Data Sheets available on request.

### Property

#### Uncured Product

Color A		<b>black</b>
Color B		<b>black</b>
Cure Profile		<b>1 hour at 100 - 130°C</b>
Cure Type		<b>Addition</b>
Density A	BS ISO 2781	<b>1.1</b>
Density B	BS ISO 2781	<b>1.1</b>
Mix Ratio By Weight		<b>1:1</b>
Pot Life mins at 23°C/73°F		<b>&gt;1440 mins</b>
Rheology		<b>Viscous liquid</b>
Viscosity A	Brookfield	<b>71000 cP</b>
Viscosity B	Brookfield	<b>75000 cP</b>

#### Cured Product

Color		<b>Black</b>
Elongation at Break	ISO 37	<b>240 %</b>
Hardness Shore A	DIN 53 505	<b>35</b>
Tear Resistance (N/mm)	BS ISO 34-1	<b>5.5 N/mm / 31 ppi</b>
Tensile Strength	ISO 37	<b>1.9 N/mm<sup>2</sup> / 276 psi</b>
Thermal Conductivity		<b>0.35 W/mK</b>

#### Electrical Properties

Volume Resistivity (Ohms cm)	ASTM D-257	<b>&lt;1E+3 ohms cm</b>
------------------------------	------------	-------------------------

#### Storage

Max Storage Temperature	<b>30 °C / 86 °F</b>
Shelf Life	<b>6 mths</b>

Revision Date      21 Oct 2021  
Revision No        4  
Download Date     17 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