TECHNICAL DATA SHEET

SilSo 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.

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

Property	Test Method	Value
Uncured Product		
Color A		**black**
Color B		**black**
Cure Profile		**1 hour at 100 - 130°C**
Cure Type		**Addition**
Density A	BS ISO 2781	**1.1**
Density B	BS ISO 2781	**1.1**
Mix Ratio By Weight		**1:1**
Pot Life hrs at 23°C/73°F		**>24 hours**
Rheology		**Viscous liquid**
Viscosity A	Brookfield	**71000 cP**
Viscosity B	Brookfield	**75000 cP**
Cured Product		
Color		**Black**
Elongation at Break	ISO 37	**240 %**
Hardness Shore A	DIN 53 505	**35**
Tear Resistance (N/mm)	BS ISO 34-1	**5.5 N/mm / 31 ppi**
Tensile Strength	ISO 37	**1.9 N/mm2 / 276 psi**
Thermal Conductivity		**0.35 W/mK**
Electrical Properties		
Volume Resistivity (Ohms cm)	ASTM D-257	**<1E+3 ohms cm**
Storage		
Max Storage Temperature		**30 °C / 86 °F**
Shelf Life		**6 mths**

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.

Revision Date	21 Oct 2024
Revision No	8
Download Date	21 May 2025

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