

SiISO 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)

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.

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Property

Uncured Product

Color A
Color B

Cure Profile

Cure Type

Density A

Density B

Mix Ratio By Weight

Pot Life mins at
23°C/73°F

Rheology

Viscosity A

Viscosity B

Cured Product

Color

Elongation at Break

Hardness Shore A

Tear Resistance (N/mm)

Tensile Strength

Thermal Conductivity

Electrical Properties

Volume Resistivity (Ohms
cm)

Storage

Max Storage
Temperature

Shelf Life

Test Method

BS ISO 2781

BS ISO 2781

Brookfield

Brookfield

ISO 37

DIN 53 505

BS ISO 34-1

ISO 37

ASTM D-257

Value

black

black

**1 hour at 100 -
130°C**

Addition

1.1

1.1

1:1

>1440 mins

Viscous liquid

71000 cP

75000 cP

Black

240 %

35

5.5 N/mm / 32 ppi

1.9 N/mm² / 276 psi

0.35 W/mK

<1E+3 ohms cm

30 °C / 86 °F

6 mths

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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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