

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

Description	Property	Test Method	Value
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			
<ul style="list-style-type: none"> • 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:			
<ul style="list-style-type: none"> • 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.			
Revision Date	21 Oct 2021		
Revision No	4		
Download Date	13 Aug 2022		
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 mins at 23°C/73°F			>1440 mins
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 / 32 psi
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

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