

SilSo Food 21931 2 Part addition cure molding rubber

Description

This is a pourable 2-part addition cure silicone elastomer system. After mixing parts 'A' and 'B' in the correct proportions, the system will cure at ambient temperatures within 24 hours, but the rate of cure can be accelerated by heat. The cured rubber exhibits excellent physical and electrical properties.

Key Features

- Crosslinks at temperatures >23°C
- Easy processing
- Crosslinks to a resistant, rubbery-elastic vulcanisate without reaction heat
- Very good mechanical properties

Application

Moulding of food stuffs

Use and Cure Information

IMPORTANT:

The 'A' part of 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's 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 and any settlement of the fillers have been remixed. Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the colour of the mixture is uniform. For best results, we recommend degassing. Degas by intermittent evacuation, the larger volume of the mixing vessel helps prevent overflow during this operation. In case of automatic dispensing with static mixing head, the two components should be degassed before processing.

Recommended vacuum conditions are 30-50 mbar intermittently over 5-10 minutes. Cast the mixture either by gravity or pressure injection. In order to achieve optimum performance, the same "A" and "B" side lot number should be used.

Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

Curing Conditions

The data offers a guide to the rate of cure at various temperatures, mixing of the components at temperatures between 15 and 25°C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.

Health & Safety

Safety Data Sheets available on request.

Packaging

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

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Property

Uncured Product

Color A		Transparent
Color B		Transparent
Cure Type		Addition
Density A	BS ISO 2781	1.10
Density B	BS ISO 2781	1.00
Max Cure Mins @ 100 °C		60 mins
Mix Ratio By Weight		10:1
Pot Life mins at 23°C/73°F		60 mins
Viscosity A	Brookfield	40000 cP
Viscosity Mixed	Brookfield	32000 cP

Cured Product

60 minutes at 100°C

Color		Transparent
Density	BS ISO 2781	1.08 g/cm3
Elongation at Break	ISO 37	310 %
Hardness Shore A	ASTM D 2240-95	30
Linear Shrinkage (%)		0.1 %
Max Working Temp		200 °C / 392 °F
Min Working Temp		-50 °C / -58 °F
Tear Resistance (N/mm)	BS ISO 34-1	16 N/mm / 91 ppi
Tensile Strength	ISO 37	3.5 N/mm2 / 508 psi
Youngs Modulus (N/mm2)		0.6 N/mm2 / 87 psi

Storage

Max Storage Temperature	30 °C / 86 °F
Shelf Life	12 mths

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