TECHNICAL DATA SHEET



30 °C / 86 °F

ALPA-SIL 97167 2 part Silicone Moulding Rubber

Description	Property	Test Method	Value
This is a pourable 2-part addition cure silicone elastomer system. After mixing parts 'A' and 'B' in the correct proportions, the	Uncured Product		
	Appearance		viscous liquid
system will cure at ambient temperatures within 24 hours, but the	Color A		yellow
rate of cure can be accelerated by heat. The cured rubber exhibits excellent physical and electrical properties. Key Features • crosslinks at temperatures > 23 °C/77°F	Cure Type		Addition
	De-mould Time / Full Cure at 23°C/73°F		4 - 6 hrs
 easy mixing of the components 	Mix Ratio By Weight		1:1
simple processing	Pot Life mins at 23°C/73°F		25 mins
 crosslinks to a resistant rubbery-elastic vulcanisate without 	Viscosity A	Brookfield	71000 cP
heat of reaction	Viscosity B	Brookfield	80000 cP
Use and Cure Information	,		
IMPORTANT:	Cured Product		
The 'A' part of product	Color		Orange
contains the platinum catalyst; great care should be taken when	Density	BS ISO 2781	0.98 g/cm3
using automatic dispensing equipment. Please ensure that it is	Elongation at Break	ISO 37	260 %
not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's	Hardness Shore A	DIN 53 505	38
advised to thoroughly purge the equipment with a suitable	Linear Shrinkage (%)		<0.1 %
hydrocarbon solvent or silicone fluid.	Tear Resistance (N/mm)	BS ISO 34-1	>17 N/mm / 0 ppi
Mixing	Tensile Strength	ISO 37	>3.8 N/mm2 / 0 psi
Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settlement of the fillers have been	Storage		·

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

Shelf Life 12 mths 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

Max Storage Temperature

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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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

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