TECHNICAL DATA SHEET

ALPA-SIL TD ANTIST. SH. C:30
2 part Silicone Moulding Rubber

Description

Pourable, addition-curing, 2-part silicone rubber that cures at room temperature. This product is mainly used for making antistatic silicone printing pads. The cured rubber exhibits excellent physical and electrical properties. Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat.

Key Features

- Crosslinks at temperatures as of 23 °C/77°F
- Easy blending of the components
- Simple processing
- Antistatic

Application

Silicone Elastomer with antistatic properties for Pad-Printing applications.

Use and Cure Information

Mixing

Components A and B are mixed at a mass ratio of 1 : 1. The two components are thoroughly mixed either by hand or with an electric or pneumatic stirrer at low speed to avoid air from being dragged in and/or to avoid a temperature increase. Crosslinking is slowed down by reducing the temperature and accelerated by increasing it. The non-tacky time is about 8 – 12 hours.

Property	Test Method	Value
Uncured Product		
Appearance		**Green**
Color A		**Translucent**
Cure Type		**Addition**
De-mould Time / Full Cure at 23°C/73°F		**12 hrs**
Mix Ratio By Weight		**1:1**
Pot Life mins at 23°C/73°F		**60 mins**
Tack Free Time / Skin Formation at 23°C/73°F		**8 - 12 hr**
Viscosity A	Brookfield	**5000 cP**
Viscosity B	Brookfield	**4000 cP**
Viscosity Mixed	Brookfield	**4500 cP**
Cured Product		
Color		**Green**
Hardness Shore C		**30**
Linear Shrinkage (%)		**< 0.1 %**
Storage		
Max Storage Temperature		**30 °C / 86 °F**
Shelf Life		**12 mths**

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.

These substances may impair or even completely prevent the curing behavior of addition crosslinking silicones typically indicated by tacky surfaces. Therefore, it is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Health & Safety

Please observe our 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.

Delivery Units

Component A: 5 kg or 25 kg

Component B: 5 kg or 25 kg

Other container sizes upon demand.

Storage

Components A and B can be optimally processed for approx. 12 months if stored properly at temperatures below 30 °C and protected from frost in closed original containers.

Revision Date	27 Mar 2024
Revision No	2
Download Date	29 Mar 2024

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.
CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. 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.
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