

SilSo Resist 21005 2-part liquid silicone rubber

Description	Property	Test Method	Value
<p>This is a two component silicone elastomer which crosslinks through polyaddition reaction. Particularly well suited for LSR applications. Generally processed with injection moulding equipment.</p> <p>Key Features</p> <ul style="list-style-type: none"> • Simple demoulding • Low linear shrinkage • Crosslinking acceleration through temperature increase • Good resistance to cosmetic ingredients like lipstick bulks <p>Application</p> <p>Lipstick moulds</p> <p>Use and Cure Information</p> <p>IMPORTANT:</p> <p>The 'A' part of the 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 is advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.</p> <p>Mixing</p> <p>Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform. If utilizing machine-dispense, ensure the mixing device has sufficient elements to fully homogenize the components of the formulation. Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite.</p> <p>Inhibition of Cure</p> <p>Great care must be taken when handling and mixing all addition curing silicone elastomer systems, ensuring that all the mixing tools are clean and constructed in materials which do not interfere with the curing mechanism. 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.</p> <p>The following substances are particularly critical:</p> <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) <p><i>It is absolutely important to check the compatability in preliminary test if unknown substrates are moulded.</i></p>	<p>Uncured Product</p> <p>Appearance</p> <p>Cure Type</p> <p>De-mould Time / Full Cure at 23°C/73°F: hrs</p> <p>Density A</p> <p>Density B</p> <p>Mix Ratio By Weight</p> <p>Pot Life hrs at 23°C/73°F</p> <p>Viscosity A</p> <p>Viscosity B</p>		<p>Blue</p> <p>Addition</p> <p>0.2 hrs</p> <p>1.02</p> <p>1.02</p> <p>1:1</p> <p>>24 hours</p> <p>1600 cP</p> <p>1600 cP</p>
	<p>Cured Product</p> <p>Color</p> <p>Density</p> <p>Elongation at Break</p> <p>Hardness Shore A</p> <p>Linear Shrinkage (%)</p> <p>Tear Resistance (N/mm)</p> <p>Tensile Strength</p>	<p>BS ISO 2781</p> <p>BS ISO 2781</p> <p></p> <p>DIN 53 505</p> <p>BS ISO 34-1</p> <p>ISO 37</p>	<p>Blue</p> <p>1.02 g/cm3</p> <p>210 %</p> <p>12</p> <p>< 0.1 %</p> <p>1.8 N/mm / 10 ppi</p> <p>1.3 N/mm2 / 189 psi</p>
	<p>Storage</p> <p>Max Storage Temperature</p> <p>Shelf Life</p>		<p>30 °C / 86 °F</p> <p>12 mths</p>

Curing conditions

The rate of cure is significantly influenced by temperature. Therefore mixing of the components at temperatures between 15 and 25 °C is recommended to ensure adequate pot life for handling. Crosslinking is slowed down by reducing the temperature, whereas it is accelerated by increasing it.

A detailed rheometer report can be made available upon request.

The end user must test in their application and process as the quantity of material, size of part, and method of applying heat will influence time and temperature requirements.

Health & Safety

Safety Data Sheets available on request.

Packaging

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

Revision Date 23 Jul 2024
Revision No 9
Download Date 09 May 2026

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