

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</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.

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