

RHODORSIL RTV 573 CATALYST 60R GREEN

MAY 1998

TECHNICAL DATA SHEET

Description **RHODORSIL RTV 573** is a two-component silicone elastomer which crosslinks at room temperature by a polycondensation reaction. After the crosslinking reaction a flexible elastomeric material is produced.

RHODORSIL RTV 573 is normally cured with 3 percent by weight of Catalyst 60R Green.

Advantages

- Low viscosity, readily pourable mixture in its uncured state.
- Quick curing.
- SIMTARS Certificate of Conformity SIMEX 95C003U to AS 1147.1
- SYSTEMS APPROVALS P/L Certificate of Conformity EX.11413

Uses

- Cavity filling on cable coupling devices and cable jointing arrangements.
- Potting and sealing in electrical and electronic devices.
- Manufacturing of tampography printing pads.

Characteristics

1. Before mixing

PROPERTIES	RHODORSIL RTV 573	CATALYST 60R GREEN
Aspect	viscous liquid	Clear liquid
Colour	Beige	Green
Specific Gravity at 25°C, approx.	1.3	0.96
Viscosity at 25°C, cps approx.	15,000 – 25,000	-

2. Mixing ratios

RHODORSIL RTV 573	100 parts
CATALYST 60R GREEN	3 parts
Pot life of the catalysed mixture at 25°C, approx.	15 min
Time after which the elastomer can be handled (or removed from the mould) at 25°C, approx.	1 – 5 hours

Characteristics
(cont'd)**3. Cured rubber properties**

3.1 Measurements made after 4 days curing at 23°C and 50% relative humidity.

3.1.1	On specimen 6mm thick: Shore A Hardness, points, approx. (ASTM D 2240)	20
3.1.2	On film 2mm thick: Tensile strength, MPa, approx. (BS 903: Part A 4: Die 2)	1.8
	Modulus at 100% elongation, MPa, approx. (BS 903: Part A 4: Die 2)	0.5
	Elongation at break, %, approx. (BS 903: Part A 2: Die 2)	250
	Tear strength, kN/m, approx. (ASTM D 624 – Die A)	5

3.2 Physical properties

	Linear shrinkage, %, max.	0.3
	Coefficient of cubic expansion, K-1, approx.	0.0009
	Thermal Deformation, %, approx. (AS 1147.1)	0.2

3.3 Dielectric properties

	Dielectric Strength, kV/mm, approx.	17
	Dielectric Constant at 1 kHz	2.8
	Dissipation factor at 1 kHz, approx.	0.005
	Surface Resistivity, T Ω	8.3
	Volume Resistivity, Ω cm, approx.	1×10^{14}

Remark: *The above values are approximate and may not be used to draw up specifications. Please consult us about drawing up such a product.*

Packaging

RHODORSIL RTV 573 is supplied in 1kg, 5kg and 20kg kits including the necessary quantity of Catalyst 60R Green.

It is also available in 240kg drums, in which case the catalyst is supplied in a separate pack.

Storage and shelf life

RHODORSIL RTV 573 and CATALYST 60R Green must be used within 18 months of delivery.

To preserve all the properties of **RHODORSIL RTV 573** and the properties which go with it, they must be kept in the original closed containers at a temperature below 30°C, and used as soon as the containers are opened.

Safety

Please refer to the Safety Data Sheets on **RHODORSIL RTV 573** and Catalyst 60R Green.

Warning to users

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

Rhodia guarantees that its products comply with its sales specifications.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.

Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations.

Users are requested to check that they are in possession of the latest version of this document, and Rhodia is at their disposal to supply any additional information.



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