

MM50T (old RTV 50T) 2-Part Moulding Rubber

Introduction

MM50T is a two component high tear room temperature condensation cure silicone system. The cured rubber is a soft material, suitable for the mould making of patterns with undercuts and intricate details, and for pads for tampo printing

Key Features

- Absence of inhibition during cure
- High resiliency
- Easy degassing
- Excellent reproducibility
- Very high self releasing properties

Use and Cure Information

How to Use

Charge MM50T into a clean plastic or metal container, approximately 3-4 times its volume.
Add standard catalyst MM CAT L6W in the proportion of 5 parts by weight of catalyst to 100 parts by weight of the rubber base.
Mix thoroughly, slowly at first to avoid splashing and taking care to avoid excessive air entrapment.
After catalysation any entrapped air may be removed by intermittent evacuation for several minutes. The use of a sufficiently large container permits degassing without overflow.

Application and Cure

Pour the catalysed rubber into the mould from one point, ensuring air is not entrapped. Allow the rubber to cure for 8-10 hours before removing from the mould.
Allow the partially cured rubber to age at room temperature for at least a further 24 hours to achieve maximum properties and remove any small catalyst residues.

Property	Test Method	Value
Uncured Product		
Colour:		Grey
Appearance:		Viscous liquid
Viscosity:	Brookfield	12000 mPa.s
Pot Life:		60 minutes *
De-mould time		24 hours *
* measured at 23+/-2°C and 65% relative humidity.		

Cured Elastomer (after 7 days cure at 23+/-2°C and 65% relative humidity)		
Tensile Strength:	BS903 Part A2	1.7 MPa
Elongation at Break:	BS903 Part A2	700 %
Tear Strength:	BS903 Part A3	6 kN/m
Hardness:	ASTM D 2240-95	6° Shore A
Specific Gravity:	BS 903 Part A1	1.21
Linear Shrinkage:		0.50 %
Coefficient of Thermal Expansion:		
Volumetric Linear		799 ppm / °C
Linear		266 ppm / °C
Min. Service Temperature:		-50 °C
Max. Service Temperature:	AFS 1540B	180°C

Electrical Properties

Volume Resistivity:	ASTM D-257	1x10 ¹³ Ω.cm
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All values are typical and should not be accepted as a specification.

Health and Safety - Material Safety Data Sheets available on request.

Packages – MM50T is supplied in 5 kg, 10 kg and 20 kg bulk containers.
MM CAT L6W is supplied in 250 g, 500 g and 1 kg containers.
Arrangements can be made to supply in other pack sizes.

Storage and Shelf Life – Expected to be 12 months in original, unopened containers below 40°C.

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