

## MM50T 2 part moulding compound

### Description

This is a two-component low tear room temperature condensation cure silicone system. The cured rubber is suitable for the mould making of patterns with fine details, where some dimensional stability is required. Low tear silicone moulding rubbers are cost effective for the production of moulds only requiring a few impressions. They find uses in the reproduction of plane surface objects

### Key Features

- Soft resilient rubber
- Suitable for tampon print pads
- Flexibility for deep undercuts
- Fine detail pick up

### Application

Printing pads

### Use and Cure Information

The curing process starts as soon as the catalyst is added. Under normal conditions of temperature and humidity typical curing characteristics are described below. If the product is to be used in contact with aggressive chemicals, such as high styrene polyester resins or epoxies, it is recommended that the rubber be allowed to cure for 48 hours before use.

Pour the catalysed rubber into the mould from one point, ensuring air is not entrapped. Allow the rubber to cure before removing from the mould. To allow the rubber to achieve its maximum physical properties and chemical resistance leave the partially cured rubber to age at room temperature for at least a further 12 hours.

### How to Use

Charge the base rubber into a clean plastic or metal container, approximately 3-4 times its volume.

Add standard catalyst 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.

### Catalysts

Use the following catalysts:

Code	Colour	Pot Life	De-Mould
MM CAT L5 NT	Clear	>60 mins	<24 hrs

### Health & Safety

#### Health and Safety

Safety Data Sheets available on request.

### Packaging

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

Revision Date 20 May 2021  
Revision No 2  
Download Date 20 Oct 2021

### Property

#### Uncured Product

Appearance

Color A

Cure Profile

Cure Type

De-mould Time / Full Cure at 23°C/73°F

Mix Ratio By Weight

Pot Life mins at 23°C/73°F

Rheology

Viscosity A

Viscosity B

#### Cured Product

CTE Volumetric ppm/°C

Color

Density

Elongation at Break

Hardness Shore 00

Linear Coefficient of Thermal Expansion (ppm/°C)

Linear Shrinkage (%)

Max Working Temp

Min Working Temp

Tear Resistance (N/mm)

Tensile Strength

#### Storage

Max Storage Temperature

Shelf Life

### Test Method

Brookfield

Brookfield

BS ISO 2781

ISO 37

ASTM D 2240-95

BS ISO 34-1

ISO 37

### Value

Viscous liquid

Grey

23°C and 50% humidity

Condensation

8 hr hrs

20:1

>45 min mins

Liquid

12000 cP

50 cP

799 ppm/°C

Blue

1.21 g/cm3

700 %

47

266 ppm/°C

0.5 %

180 °C / 356 °F

-50 °C / -58 °F

6 N/mm / 35 ppi

1.7 N/mm2 / 247 psi

40 °C / 104 °F

12 mths

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