

MM282 (old RTV282) 2-Part Moulding Rubber

Introduction

MM282 is a new, high strength, translucent condensation cure silicone rubber. It has been specially developed for the detailed reproduction of master parts, particularly artistic models requiring special pigmentation and good flexibility. It is an ideal moulding rubber for the manufacture of artistic mouldings using plaster, natural or synthetic cement, filled polyester, cellular polyurethane etc.

Key Features

- Absence of inhibition during cure
- Good elasticity and tear strength
- Excellent flexibility
- Sufficient time for degassing of the catalysed rubber

Use and Cure Information

How to Use

Charge MM282 into a clean plastic or metal container, approximately 3-4 times its volume. Add catalyst MM282B 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 16-24 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.

Pigmentation/Colouration

MM282 has been found to be very compatible with all inorganic and organic pigments, and with man oil soluble dyes. The use of such materials is familiar to those skilled in the art.

Property

Uncured Product

Property	Test Method	Value
Colour:		Translucent
Appearance:		Viscous liquid
Viscosity:	Brookfield	33000 mPa.s
Catalysed Viscosity:	Brookfield	21000 mPa.s
Pot Life:		210 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	2.60 MPa
Elongation at Break:	BS903 Part A2	460 %
Youngs Modulus:		MPa
Modulus at 100% Strain:	BS903 Part A2	MPa
Tear Strength:	BS903 Part A3	14.1 kN/m
Hardness:	ASTM D 2240-95	14 ° Shore A
Specific Gravity:	BS 903 Part A1	1.05
Linear Shrinkage:		0.45 %
Coefficient of Thermal Expansion:		
Volumetric Linear		859ppm / °C
Linear		286ppm / °C
Min. Service Temperature:		-50 °C
Max. Service Temperature:	AFS 1540B	200 °C

Electrical Properties

Volume Resistivity:	ASTM D-257	1x10 ¹³ Ω.cm
---------------------	------------	-------------------------

All values are typical and should not be accepted as a specification.

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

Packages – MM282 is supplied in 1 kg, 5 kg and 20 kg bulk containers.

MM282B is supplied in 50 g, 250 g and 1 kg containers. MM TA2 is supplied in 50g, 100 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.

Revision Date: 28.09.04

The information and recommendations in this publication are to the best of our knowledge reliable. However nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.