

MM709 (old RTV709) 2-Part Moulding Rubber

Introduction

MM709 is a two component room temperature condensation curing silicone compound.

The cured product is a very soft rubber, showing an extremely high elongation. It is especially suited to the manufacture of tampon printing pads.

Key Features

- No inhibition
- Easy degassing
- Very low viscosity
- Very low hardness
- High elongation
- Extremely easy demoulding
- Good chemical resistance to resins (PE-PU-Epoxy)

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.

The normal catalyst for use with MM709 series of rubbers is MM CAT L6W.

How to Use

Charge 95-100 parts by weight of MM709 and 5 parts by weight of MM CAT L6W into a suitable plastic or metal container. The volume of the mixing vessel should be sufficient to allow for rapid expansion which takes place during the initial degassing of the catalysed rubber.

Mix thoroughly avoiding excessive air entrapment, to achieve homogeneity. Stop the mixer and scrape the vessel walls a few times. To prevent imperfections due to bubbles in the cured rubber, it is advisable to de-aerate the liquid rubber by using intermittent evacuation for a few minutes. Normally after releasing the vacuum 2 or 3 times, the mass collapses naturally after which degassing should continue for only a few minutes.

Property

Test Method

Value

Uncured Product

Colour:		Translucent
Appearance:		Viscous liquid
Viscosity:	Brookfield	18000 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	0.30 MPa
Elongation at Break:	BS903 Part A2	600 %
Tear Strength:	BS903 Part A3	3 kN/m
Hardness:	ASTM D 2240-95	20° Shore 00
Specific Gravity:	BS 903 Part A1	1.00
Linear Shrinkage:		<0.50 %
Coefficient of Thermal Expansion:		
Volumetric		930 ppm / °C
Linear		310 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 – MM709 is supplied in 5 kg and 20 kg bulk containers.
MM CAT L6W is supplied in 250 g 500 g and 1 kg containers.

Storage and Shelf Life – Expected to be 12 months in original, unopened containers below 40°C. MM Cat L6W is expected to be 6 months.

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