

RTV430

Condensation Cure Mould making Rubber

Product Description RTV430 is a two part, high strength, condensation (tin) cure mould making product. It can be used with two different catalysts and therefore offers a variety of curing options to be customized for your needs!
RTV430 & Beta 5 is a medium durometer (30 Shore A) product offering excellent thermal resistance and dimensional stability. It can be used for casting high-heat resins or for oven-cured process.
RTV430 & Beta 11 is a medium durometer (30 Shore A) product, perfect for large, linear parts requiring flexibility and dimensional stability.

Key Performance Properties

- Variety of cure options
- Low viscosity easy flow
- Superior detail reproduction
- High tear strength and flexibility

Typical Product Data

Product Base		RTV430	
Colour		white	
Viscosity	mPa·s	55.000	
Specific Gravity	g/cm ³	1.08	
Catalyst		Beta 5	Beta 11
Colour		red	blue
Viscosity	mPa·s	50	20
Density	g/cm ³	1.22	0.95
Mix Ratio	wt:wt	10:1	10:1

Typical Product Data

Catalyzed Properties			
Colour Mixed		pink	light blue
Viscosity	mPa·s	47 000	47 000
Work life	Minutes	90	70
Pot life	Minutes	180	90
Demould time	Hours	12	12
Hardness after 24 hrs	Shore A	28	28
Tensile Strength	MPa	3.1	4.1
Elongation	%	300	360
Tear Strength	N/mm	23	22
Service Temperature	°C	-60 to 200	-60 to 200
Linear Shrinkage after 24 hrs	%	0.5	0.5
Linear Shrinkage after 7days	%	1.0	1.0

Specifications Typical product data values should not be used as specification. Assistance and specifications are available by contacting Momentive performance materials Technical Service RTV1 and RTV2.

Instructions for Use **Mixing**

Select a mixing container 4-5 times larger than the volume of RTV silicone rubber compound to be used. Weigh out the RTV silicone rubber base compound and add the appropriate amount of curing agent. With clean tools, thoroughly mix the RTV base compound and the curing agent, scraping the sides and bottom of the container carefully to produce a homogeneous mixture. When using power mixers, avoid excessive speeds, which could entrap large amounts of air or cause overheating of the mixture, resulting in shorter pot life.

Deaeration

Air entrapped during mixing should be removed to eliminate voids in the cured product. Expose the mixed material to a vacuum of about 10-20 mbar. The material will expand, crest, and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing ceases.

Automatic equipment designed to meter, mix, deaerate, and dispense two-component RTV silicone rubber compounds will add convenience to continuous or large volume operations.

Curing

RTV430 with Beta 5 or Beta 11 is designed to cure within 24 hours at room temperature (25°C) and 50% relative humidity. This system is sensitive to changes in heat and humidity and therefore variations in cure speed may be seen if one or both variables are changed.

Handling and Safety

Material Safety Data Sheets are available upon request from Momentive performance materials. Similar information for solvents and other chemicals used with the Momentive performance materials products should be obtained from your supplier. When solvents are used, proper safety precautions must be observed.

Storage and Warranty Period

The warranted shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers below 27° C.

Availability

RTV 430 is available in 4.5 kg, 18 kg and 200 kg drums.
Beta 5 and Beta 11 are available in 450 g, 1.8 kg and 20.4 kg pails.



PRINCIPAL LOCATIONS – Regional Information

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Pacific	Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	T +81.3.5544.3100	F +81.3.5544.3101

CUSTOMER SERVICE CENTERS

North America	Charleston, WV 25314, USA E cs-na.silicones@momentive.com		
	• Specialty Fluids	T 800.523.5862	F 304.746.1654
	• UA, Silanes, Resins, and Specialties	T 800.334.4674	F 304.746.1623
	• RTV Products-Elastomers	T 800.332.3390	F 304.746.1623
	• Sealants and Adhesives & Construction	T 877.943.7325	F 304.746.1654
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	• Argentina & Chile	T +54.11.4862.9544	F +54.11.4862.9544
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