

RTV430

Description

RTV430 is a two part, high strength, condensation (tin) cure moldmaking product. It can be used with three 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. RTV430 is a two part, high strength, condensation (tin) cure moldmaking product.

Key Features and Typical Benefits

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

Typical Physical Properties

<u>Property</u>	<u>Unit</u>	<u>Value</u>	
Color		white	
Viscosity	cps	55,000	
Specific Gravity		1.08	
Catalyst		Beta 5	Beta 11
Color		red	blue
Viscosity	cps	50	20
Specific Gravity		1.22	0.95
Mix Ratio	wt:wt	10:1	10:1
Catalyzed Properties			
Color Mixed		Pink	Light Blue
Viscosity	cps	47,000	47,000
Worklife	minutes	90	70
Potlife	minutes	180	90
Demold time	minutes	12	12

Typical Physical Properties, continued

<u>Property</u>	<u>Unit</u>	<u>Value</u>	
Shore A	36 hours	30	30
Shore A	24 hours	28	28
Tensile	MPa (psi)	3.1 (450)	4.1 (600)
Elongation	%	300	360
Tear	kg/mm (ppi)	2.32 (130)	2.14 (120)
Service Temperature	°C (°F)	-60/200 (-75/392)	-60/200 (-75/392)
Linear Shrinkage	% 24 hours	0.5	0.5
Linear Shrinkage	% 7 days	1.0	1.0

Typical properties are average data and should not be used as or to develop product specifications

Potential Applications

- Art reproduction

Processing Recommendations

- **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 homogenous 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 29 in. of mercury. 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 (77 °F/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. Enter text or delete paragraph

Patent Status

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Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

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