



RTV430

Condensation Cure Moldmaking Rubber

Product 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.

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 | |
| Color | white | |
| Viscosity, cps | 55,000 | |
| Specific Gravity | 1.08 | |
| Catalyst | Beta5 | 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 | Lt Blue |
| Viscosity, cps | 47,000 | 47,000 |
| Worklife, min | 90 | 70 |
| Potlife, min | 180 | 90 |
| Demold time, hrs. | 12 | 12 |
| Shore A, 36 hrs. | 30 | 30 |
| Shore A, 24 hrs | 28 | 28 |
| Tensile, psi | 450 | 600 |
| Elongation, % | 300 | 360 |
| Tear, ppi | 130 | 120 |
| Service TemperatureC(F) | -60/200 (-75/392) | -60/200 (-75/392) |
| Linear Shrinkage, % 24 hrs | 0.5 | 0.5 |
| Linear Shrinkage, % 7 days | 1.0 | 1.0 |
| Shelf Life, months | 18 | 18 |

Specifications

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting GE Silicones at 800/255-8886.

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 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. For additional information, refer to GE Silicones publication (1758).

Curing

RTV430 with Beta 5 or Beta 11 is designed to cure within 24 hours at room temperature (77F/25C) 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 GE Silicones. Similar information for solvents and other chemicals used with GE products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.

Storage and Warranty Period

The warranty period is 12 months from date of shipment from GE Silicones if stored in the original unopened container at 25C (77F) or below.

Government Requirement

Prior to considering use of a GE Silicones product in fulfilling any government requirement, please contact the Government and Trade Compliance office at 413-448-4624.

CDS5344

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