

Technical Data:

Issued: Nov. 2007
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RTV 295

High Thermal Conductive Two-Component RTV Silicone

Product Description	RTV 295 is a medium viscosity reversion resistant silicone encapsulant, displaying high thermal conductivity.	
Features & Benefits	<ul style="list-style-type: none"> • High thermal conductivity • High temperature resistance • Long pot life • Medium viscosity • Low water penetration • Accelerated curing at elevated temperature 	
Applications	Potting and Encapsulation of Electric/Electronic Equipment.	

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Base Resins	RTV 295 (A) RTV 295 (B)	Silicones Silicones
Appearance/Color	RTV 295 (A) RTV 295 (B)	Red Clear
Viscosity @25°C, mPa*s ASTM-D-2196	RTV 295 (A) RTV 295 (B)	25000-40000 900-1100
Density @ 25°C, g/cm³	RTV 295 (A) RTV 295 (B)	2.1 ± 0.1 0.95 ± 0.03
Mix Ratio A:B, (by weight)	100:7.5	
Mix Viscosity @25°C, mPa*s ASTM-D-2196	10000-18000	
Work life, @ 25°C, min	40-60	
Gel-time, 100g @ 25°C, min	100-150	

Instructions for use:

Stir compound RTV 295 thoroughly in the original container prior to use. Weigh required amount of Part A and Part B into a clean container in the recommended ratio. Blend thoroughly being careful to scrape sides and bottom of the container for 3-4 minutes to ensure uniform mixture.
To produce a void-free casting the mixture should be deairing at 2-5 mmHg for 5-10 minutes to remove trapped air.

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Typical Cured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Curing Schedule	48hr at 25°C or 8hr at 60°C
Hardness , ASTM-D-2240, Shore A	55-60
Thermal Conductivity , W/m-K	0.6-0.7
Service Temperature , °C	-55 to 205

Storage	Store products at 10-35°C for maximum shelf life.
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Packaging	Packaging sizes are available from 1L to 5L pails
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Shelf Life	These products have a shelf life of 6 months in their unopened original pails.
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Limitation of Liability	Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.
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Notes

Certain materials may inhibit the cure of RTV 295 when placed in contact with mixed, uncured rubber. Materials such as amines and amine-cured epoxies, sulfur containing materials and condensation (tin cured) silicones, are some, which may cause inhibition. Even surfaces, which have been in contact with such materials, may cause it. If in doubt, a patch test should be done.