

RTV820

**2 Part RTV**

**Product Description**

RTV820 is a two-component silicone elastomer, which can be cured rapidly at elevated temperatures. This clear, pasty material is supplied as matched kit, which is designed for use at a convenient 1:1 mix ratio by weight. The material has been especially developed as an airbag adhesive, but is not limited to this application.

**Key Performance Properties**

- Convenient 1:1 mixing
- Fast cure at elevated temperatures
- Excellent bonding to substrate (especially nylon)
- Long pot life
- Non corrosive to electronic metals
- Pasty consistency

**Application**

RTV 820 is specially developed for airbag adhesion. However, the material is not limited to this application. RTV 820 can also be used for other applications where fast cure at elevated temperatures and good adhesion are required.

**Typical Product Data**

<b>Uncured Mixed Properties</b>		<b>A</b>	<b>B</b>
Colour		translucent	translucent
Viscosity @ 20°C Haake-Viscosity; cone: 20 mm	Pa·s	380	280
Pot Life	hrs	72	
Mix-Viscosity @ 20°C Haake-Viscosity; cone: 20 mm		320	

<b>Cured Properties @ 5 min. 150 °C</b>		
Specific Gravity @25°C	g/cm <sup>3</sup>	1,07
Hardness	Shore A	22
Tensile Strength	MPa	5.2
Elongation	%	> 600
Tear Strength	N/mm	29

**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:**

Automatic equipment designed to meter, mix and dispense a two- component silicone liquid elastomer.

**Compatibility:**

RTV 820 will cure when applied to a clean, dry surface, which has been properly prepared. Certain materials such as butyl and chlorinated rubber, sulfur containing materials, amines and certain metal soap-cured RTV silicon rubber compounds can cause cure inhibition. Cure inhibition is characterized by a tacky appearance of the silicone at the interface between the silicone and the substrate.

It is recommended that a sample patch test will be performed with the RTV product to determine if a barrier coating or another inhibition preventing measure is necessary before applying RTV820.

**Curing:**

RTV 820 can be applied to a substrate by knifing or extrusion. Films of 0,8 mm can be cured within 4 minutes at 160°C (depending heat exchange efficiency). Thicker coatings will decrease the rate of heat transfer and will therefore require a longer cure time or higher cure temperature. The best adhesion results are achieved with a hot press.

**Handling and  
Safety**

Material Safety Data Sheets are available upon request from Momentive performance materials. Similar information for solvents and other chemicals used with Momentive performance materials Products should be obtained from your suppliers. 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 at temperatures of 27°C or below.

**Availability**

RTV820 is available as a pail kit 20 kg A and 20 kg B or as a drum kit 200 kg A and 200 kg B.



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	• 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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