

# Technical Data Sheet

# CRTV5120

### Semi conductive adhesive sealant

## **Product Description**

CRTV5120 is a 1-part, ready to use, silicone adhesive rubber sealant, recommended for evaluation in applications where electrical semiconductivity of the sealant is a significant design consideration. On exposure to moisture in the air at room temperature this adhesive sealant cures to a tough, durable, resilient silicone rubber. It utilizes a moisture vapour cure system, which releases an acetic acid vapour from the sealant surface during cure.

Because CRTV5120 sealant has a paste-like consistency and only will flow with external pressure, it is suitable for use on horizontal, vertical and overhead surfaces in a thickness up to 10 mm.

## **Key Performance Properties**

- Semi conductive
- Self adhesion properties
- One component product
- Resistance to high temperatures
- Low temperature flexibility
- Thixotropic paste consistency

CRTV5120 silicone rubber adhesive sealant should be considered for industrial applications where electrical semi-conductivity characteristics of the finished products are important. Typical applications include gaskets and seals for electronic parts, which need EMI Shielding.

## Typical Product Data Typical uncured properties:

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Colour		Black				
Specific gravity	g/cm <sup>3</sup>	1.06				
Application Rate	g/min	550				
Tack Free Time	min	20				
Consistency		Soft spreadable paste				

# Typical Product Data Typical cured properties 1):

Hardness	Shore A	35	
Tensile strength	MPa	2.0	
Elongation	%	250	
Shear Adhesion	MPa	1.0	
Surface Resistivity	Ohm	500	

<sup>1)</sup> cured for 7 days at 23°C and 50% RH.



**Specifications** Typical product data values should not be used as specification. Assistance and specification are available by contacting Momentive Performance Materials Technical Service RTV1 and RTV2.

**Instructions for Use** 

CRTV5120 will bond to most clean surfaces without the aid of primers. These surfaces normally include most metals, glass, ceramic, silicone rubber and some rigid plastics. A preliminary check should be made to determine bonding effects for each specific application. For difficult to bond substrates, use of a primer will usually improve adhesion. The Momentive Performance Materials primers SS4004P, SS4044P and SS4155 are recommended for use with this sealant/adhesive. Where adhesion is required, surfaces should be thoroughly cleaned with a suitable hydrocarbon solvent such as naphtha, methyl ethyl ketone (MEK) and isopropyl alcohol (IPA) to remove dirt, oil and grease. The surface should be wiped dry before applying the adhesive/sealant.

## Clean up and removal:

For not cured material, solvent systems such as naphtha or methyl ethyl ketone (MEK) are most effective for clean-up.

After cure, selected chemical strippers, which will remove the silicone rubber, are available from other manufacturers. Specific product information may be obtained on request.

**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 CRTV5120 is available in 18.2 kg pails.



### PRINCIPAL LOCATIONS - Regional Information

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	<ul> <li>RTV Products-Elastomers</li> </ul>	T 800.332.3390	F 304.746.1623	
	<ul> <li>Sealants and Adhesives &amp; Construction</li> </ul>	T 877.943.7325	F 304.746.1654	
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