

IS 5120 E Alkoxy Adhesive

IS 5123 E, IS 5125 E, IS 5128 E
One Component RTV Adhesive/Sealant Fast Cure Neutral

Product Description

IS 5123 E, IS 5125 E and IS 5128 E adhesive/sealant are one component neutral RTV's which quickly cure to form elastic, flexible silicone rubbers. The products are specially developed to be non-corrosive to metals including copper and copper alloys, coupled with fast cure. IS 5120 E series have a thixotropic paste consistency, excellent dielectric properties and excellent primerless adhesion to plastics like polycarbonate, which make these materials ideal for electronic applications as well as for sealing bonding high performance plastics.

Key Performance Properties

- non-corrosive to metals
- fast cure
- non-acid cure, low smell, no irritating vapours
- compatible with polycarbonate
- excellent dielectric properties
- service temperature -50° to +150° C

Typical Product Data

Typical uncured properties :

		5123 E	5125 E	5128 E
Colour		Black	Grey	Transl
Density	g/cm ³	1.03	1.03	1.03
Tack Free Time	minutes	10	10	10
Consistency		Paste	Paste	Paste
Application rate, 6mm orifice/2bar	g/min	250	250	250

Typical cured properties :

Property	Test Method	Unit	Typical value
Hardness	DIN 53505	Shore A	20
E Mod @ 100%	DIN 53504	MPa	0.35
Tensile Strength	DIN 53504	MPa	1.7
Elongation	DIN 53504	%	550

Dielectric Strength		kV/mm	25
Dielectric Constant (50 Hz)			2.8
Dissipation Factor (50 Hz)			0.005
Volume Resistivity		ohm-cm	1x10 ¹⁵

¹⁾ the mechanical properties were obtained on 2 mm thick ASTM sheets which were cured for 1 week at 23° C and 50% RH. The dielectric properties were obtained on 1 mm thick slabs cured for 1 week at 23° C and 50% RH.

Specifications

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Momentive performance materials Technical Service RTV 1 and RTV 2.

Instructions for Use

5120 E series are fast, alkoxy neutral curing one part silicone adhesives/sealants designed for use with sensitive metals and plastics. IS 5120 E series have a high strength/medium modulus cured property profile and are suitable in most environments. Since the products are one-part products they can easily be dispensed with a single bulk dispensing pump or cartridges. The cure process begins with the formation of a skin on the exposed surface of the sealant and progresses inward through the material. At 23° C and 50% relative humidity (RH) IS 5120 E series will form a surface skin, which is dry to the touch in approximately 10 minutes.

The cured thickness of IS 5120 E series is after:

1 day 3.5 mm

3 days 6.0 mm

7 days 10 mm

Increased temperature and relative humidity will speed up curing.

Primers are not typically required when using IS 5120 E adhesive sealants. The silicones offer excellent adhesion to many substrates including most sensitive metals, painted surfaces and plastics. For difficult to bond substrates primers are available on request.

When adhesion is required, surfaces should be cleaned with suitable solvents such as isopropyl alcohol (IPA), methyl ethyl ketone (MEK) and naphtha to remove dirt, oil and grease. The surface should be wiped dry before the solvent evaporates to effectively remove the contaminants.

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

Correctly stored in its original unopened container at below 25°C. **IS 5120 E** has a shelf life of 360** days from the date of manufacturing.

**Please see also use-before/expiry date on product label and certificate.

Availability

IS 5123 E is available in 310 ml cartridges, 20 kg pails and 200 l drums.

IS 5125 E is available in 20 kg pails and 200l drums.

IS 5128 E is available in 310 ml cartridges, 20 kg pails and 200 kg drums.



PRINCIPAL LOCATIONS – Regional Information

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CUSTOMER SERVICE CENTERS

North America	Charleston, WV 25314, USA E cs-na.silicones@momentive.com		
	• Specialty Fluids	T 800.523.5862	F 304.746.1654
	• UA, Silanes, Resins, and Specialties	T 800.334.4674	F 304.746.1623
	• 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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