

FORM IN PLACE GASKETS

AD120-0309

MOMENTIVE RTV5223 SILICONE SEALANT



Modus Advanced, Inc.'s AD120-0309 Form-in-Place gaskets are a one-component, low modulus/high elongation, silicone sealant and adhesive. This low odor material cures when exposed to atmospheric humidity and room temperature conditions. It cures without producing exothermic heat or corrosive by-products, making it an excellent choice for electrical and electronic applications. This compound adheres to most metals, painted surfaces and plastics, and it has the weather, chemical, ozone and moisture resistance typical of silicone. It also has good tear resistance, and strong bonding after curing allows it to withstand extreme movement. AD120-0309 will bond dissimilar materials and materials with large thermal coefficient of expansion properties.

FEATURES AND BENEFITS

- One component, low odor
- Low modulus/ high elongation
- Non-corrosive
- Cures in room temperature and ambient humidity conditions
- Weather, ozone, UV and chemical resistance
- Good tear resistance
- Withstands extreme movement
- Cure time (3 mm or 1/8 in. sealant thickness): 24 hours at 22°C (72°F) and 50% relative humidity
- Temperature Range: -75 to +140°F

APPLICATIONS

- Bonding and sealing
- Joining dissimilar materials
- Joining materials with large thermal coefficient of expansion properties
- Use with electronic and electrical components

METHOD OF APPLICATION:

- Automated dispensing equipment

TYPICAL PROPERTIES

Property	Unit	Value
TYPICAL UNCURED PROPERTIES		
Color(s)		White, black or gray
Specific Gravity		1.4
Application Rate	g/minute	185
Tack-free time	hours	3
Sag/Slump	mm (inches)	2.5 (0.1)
Tooling or Skin-over time	minutes	30
Cure time to depth of 3.2 mm (0.125 inches)	hours	24
PHYSICAL PROPERTIES CURED		
Mechanical		
Hardness, Shore A	durometer	26
Tensile Strength	MPa (psi)	2.6 (370)
Elongation	%	750
Electrical		
Dielectric strength	kV/mm (v/mil)	16.5 (420)
Dielectric constant at 60Hz		3.9
Dissipation factor at 60Hz		0.001
Volume resistivity	Ohm-cm	5.4 x 10 ¹⁵

CUSTOMERS ALSO SEARCHED:

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|-----------------------|--------------------------------|
| form in place gasket | liquid gasket |
| liquid gaskets | paste gasket |
| liquid gasket | emi gasket |
| gasket tack | conductive silicone gasket |
| form in place | conductive silicone |
| conductive material | emi silicone |
| form in place gaskets | emi shielding gasket |
| dispensed gaskets | formed gasket |
| dispensed gasket | electrically conductive gasket |
| form-in-place | silver silicone |
| Dispensed gasket | nickel graphite silicone |
| conductive gasket | |

MODUS ADVANCED TAKES YOU FROM IDEA TO IGNITION



IDEA



ENGINEERING



SOLUTION



IGNITION



PICK A MATERIAL

TURN-KEY DISPENSED SOLUTIONS

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer which converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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