MODUS™
IDEA TO IGNITION™

DOW CORNING

DATASHEET

FORM IN PLACE GASKETS
AD-120-0414
DOW CORNING® RTV 732 SILICONE SEALANT

Modus Advanced, Inc.'s Form-in-Place AD120-0404 is a multi-purpose, one-component, silicone adhesive and sealant. Applications include general industrial sealing and bonding. This non-sagging, paste-like material applies easily and cures at room temperature to a durable, but flexible rubber. It remains stable and flexible over a wide temperature range and will adhere to a variety of substrates. Other features include excellent dielectric properties and compliance with MIL-A-46106A and FDA 177.2600 specifications.

TYPICAL PROPERTIES				
Property	Unit	Value	CTM*	ASTM*
As supplied				
Appearance Color(s)		Non-slump paste Aluminum	0176	-
Extrusion rate(1)	g/minute	350	0364	-
Skin-over time	minutes	5-10	0098	-
Tack-free time	minutes	20	0095	-
Physical properties cured 7 days in air at 25°C (77°F) and 50% relative humidity				
Specific Gravity	-	1.04	00978	D1475
Durometer hardness, Shore A	-	25	0099	D2240
Tensile Strength	MPa	2.2	0137A	D412
Elongation at break	%	550	0137A	D412
Volume coefficient of thermal expansion	1/K	$1.12x\ 10^{2}$	0420	-
Electrical properties cured 7 days in air at 25°C (77°F) and 50% relative humidity				
Dielectric strength	kV/mm	21.6	0114	0149
Dielectric constant at 100 Hz/100kHz	-	2.8	0112	0150
Dissipation factor at 100 Hz/100kHz	-	0.0015	0112	0150
Volume relativity	Ohm.cm	$1.5x10^{15}$	0112	0150

(1) Extrusion rate: 3.2 mm orifice at 0.62 MPa
*CTM: Corporate Test Method, ASTM: American Society for Testing and Materials

FEATURES AND BENEFITS

- One-component sealant and adhesive
- Acetoxy cure system–cures at room temperature and humidity
- Non-sag, paste-like consistency
- Tough and flexible after curing
- Good adhesion to various substrates
- Retains stability and flexibility over a wide temperature range
- Excellent dielectric properties

APPLICATIONS

- General industrial sealing and bonding
- MIL-A-46106A and FDA 177.2600 compliance

METHOD OF APPLICATION:
- Automated dispensing equipment

ADDITIONAL PROPERTIES

- Colors: Aluminum (also available in white, clear, and black)
- Temperature Range: -60°C (76°F) to +180°C (356°F), with short peaks up to +205°C (401°F);
- Temperature Range, Black: -60°C (76°F) to +180°C (356°F), with short peaks up to +205°C (401°F)

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

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ABOUT MODUS

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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