

# BLACK RTV SILICONE GASKET MAKER PART NO. 49271

### TYPICAL PROPERTIES

Type ..... One-Part Silicone Rubber  
Physical Form..... Non-slumping Paste  
Cure..... Cures at Room Temperature on Exposure to water vapor in the air, giving off a small amount of acetic acid  
Special Properties..... Meets or exceeds OEM volatility specifications. Won't foul engine sensors  
Primary Uses..... General purpose sealing and bonding as a space-filling rubber adhesive or a formed-in-place Gasket Maker

#### As Supplied

Specific Gravity @ 25°C (77°F) ..... 1.04  
Extrusion Rate  
(3.18 mm orifice, 90 psi air pressure), g/min ..... 350  
Flow Rate  
(sag or slump on 3.18 x 101.6-mm bead), mm ..... Nil  
Tack-Free Time @ 25°C (77°F)  
& 50% RH, minutes..... 10 to 20  
Cure Time @ 25°C (77°F)  
& 50% RH (3.18-mm thickness), hours ..... 24

#### As Cured – Physical

ASTM D2240 Durometer Hardness,  
Shore A, points..... 24  
ASTM D412 Die C Tensile Strength, Mpa (psi) ... 2.4 (350)  
ASTM D412 Die C Elongation, percent ..... 600  
ASTM D746 Brittle Point, degrees °C(°F) .. -73(-100)



### DESCRIPTION

*Dynatex® Black RTV Silicone Gasket Maker* is a paste-like, one-component material, which cures to a tough, rubbery solid upon exposure to moisture in the air. Formulated for gasket making applications. Sensor safe and manufactured to meet OEM specifications. Makes instant, leak proof gaskets for all engines, drive train equipment, and related components. Resists oil, water, anti-freeze, and transmission fluid. Works on all vehicles. Withstands the harsh conditions of GEAR OIL, especially with differentials and transfer cases.

### FEATURES

- Oxygen Sensor Safe
- Low volatile
- Makes instant leak-proof gaskets
- Resists oil, water, anti-freeze and transmission fluid
- Remains flexible
- Makes any size or shape gasket instantly
- Tested in accordance to 75/324/EEC Directive 6.1

### TYPICAL APPLICATIONS

- Valve covers
- Oil pans
- Intake manifold end seals
- Timing covers
- Thermostat housings
- Differential covers and more...

## LIMITATIONS

**Dynatex® Black RTV Silicone Gasket Maker will corrode and will not adhere to copper, brass (and other copper-containing alloys), magnesium, zinc, galvanized metals (and other zinc-containing alloys).**

**Dynatex® Black RTV Silicone Gasket Maker** has good resistance to weathering, vibration, moisture, ozone and extreme temperatures. It may be applied in sub-zero weather without loss of extrusion or physical property characteristics and is effective to -30°F (-35°C). Fully cured **Dynatex® Black RTV Silicone Gasket Maker** can be used for temperatures up to 500°F (260°C).

## CURE TIME

Cure time is affected by relative humidity, degree of confinement and cross-sectional thickness of the sealant. Sections up to 1/8-inch thick become rubbery solids in about 24 hours at room temperature at 20-percent relative humidity. Less moisture content reduces cure time slightly. In 24 hours, sections up to 1/8-inch thick cure to a rubber with a Shore A Durometer Hardness of about 20 points. After 3 days at room temperature, this durometer hardness levels off to about 24 points.

In applications where **Dynatex® Black RTV Silicone Gasket Maker** may be partially or totally confined during cure, the time required for proper cure is generally lengthened by the degree of confinement. It is possible that with absolute confinement cure will not be completed. The result is the softening of the sealant at elevated temperatures. Metal-to-metal bonds should not overlap more than one inch. Every application involving confinement during cure should be thoroughly tested before commercialization.

Curing time increases with the thickness of the sealant. A 1/2-inch cross section, for example, may require 3 or 4 days for complete solidification. However, the cure will have penetrated the outer 1/8-inch in about 24 hours.

An odor caused by the liberation of acetic acid is given off during cure. This odor disappears as the cure progresses and is not detectable after cure is complete.

## STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), **Dynatex® Black RTV Silicone Gasket Maker** has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. DO NOT stack cartons on their side. **NEVER** stack cartons more than 8 high. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building.

## USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

**Non-warranty:** Because the storage, handling and application of the material is beyond Dynatex control, we can accept no liability for the results obtained. Dynatex sole limited warranty is the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. Dynatex will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted. Suggestions of uses should not be taken as inducements to infringe any patents.

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