



DOWSIL™ Q3-7062 RTV Silicone Rubber

FEATURES

- Excellent unprimed adhesion to most metals and many plastics
- Remains flexible over a wide temperature range
- Exhibits excellent weathering and good mechanical properties
- Provides outstanding UV resistance

BENEFITS

- Flexible yet strong bond

COMPOSITION

- One part, neutral cure, silicone rubber, non-corrosive and non-slumping paste

Silicone rubber ideal for sealing and adhering industrial assemblies

APPLICATIONS

- Specially designed to adhere and seal dissimilar materials, where different thermal expansion rates demand a flexible yet strong bond
- Ideal for sealing and adhering automotive lamps and other industrial assemblies

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

CTM ¹ /ASTM ²	Property	Unit	Result
As supplied³			
CTM 0176	Consistency		Non-slumping paste
CTM 0063	Color		Black, white or grey
CTM 0364	Extrusion Rate, 3.2-mm nozzle at 0.83 Mpa/psi	grams per minute	120/90
CTM 0098	Skin-over time	minutes	30
CTM 0095	Tack-free time	minutes	50
	Cure Rate, 2mm	hours	24
CTM 0097	Specific gravity		1.5
As cured – Physical⁴			
ASTM D 2240	Durometer, Shore A		37
ASTM D 412	Tensile strength	Mpa/psi	1.5/214
ASTM D 412	Elongation	Percent	650
ASTM D 816	Lap shear adhesion, 12.7 x 25.4 x 1mm	Mpa/psi	
	acrylic to ABS		0.93/135
	polycarbonate to ABS		0.96/139
	acrylic to polycarbonate		0.99/144
	polycarbonate to polycarbonate		1.05/152

¹ Corporate Test Method, copies of CTM's are available on request.

² American Society for Testing and Materials.

³ At 23°C (73°F and 50% relative humidity).

⁴ After curing 7 days at 23°C (73°F) and 50% relative humidity.

DESCRIPTION

DOWSIL™ Q3-7062 RTV Silicone Rubber is a one-part, noncorrosive, neutral cure, RTV silicone rubber for numerous industrial applications. It exhibits excellent unprimed adhesion to most metals and many plastics, and will remain flexible over a wide temperature range. Further, it exhibits excellent weathering and good mechanical properties, and provides outstanding UV resistance.

HOW TO USE

Substrate Preparation

Surfaces to be adhered or sealed should be free of dirt, oil, and other contaminants. A surface primer can be recommended for hard-to-bond surfaces, such as some plastics. Contact your representative for specific recommendations.

How to Apply

Apply the sealant to the prepared surface in a continuous, uniform thickness. DOWSIL Q3-7062 RTV Silicone Rubber can be manually applied, but the use of automated dispensing equipment is highly recommended to obtain a uniform seal.

The sealant bead size to be specified is a function of the anticipated gap size for the part and the flange width. Consult your representative for equipment supplier and design recommendations.

Tack-Free Time and Handling Time

On exposure to moisture in the air, the surface of DOWSIL Q3-7062 RTV Silicone Rubber will skin over in about 30 minutes at room temperature and 50 percent relative humidity. To ensure integrity of the seal between mating parts, assemble the parts before the sealant skins over. Higher relative humidity will accelerate this cure time.

Cure

Curing continues inward from the surface. In 24 hours at room temperature and 50 percent relative humidity, a fully exposed section of DOWSIL Q3-7062 RTV Silicone Rubber will cure to a depth of 2 mm. Lower relative humidity will extend this cure time. If both bonded members are impermeable to moisture, as in the case of two metal plates, cure time will depend on the thickness of DOWSIL Q3-7062 RTV Silicone Rubber and the area under the joint. The larger the unexposed area, the longer the cure time. For shorter cure time and maximum bond strength, keep the area enclosed by the joint to a minimum. For best results, a metal-to-metal bond should not overlap more than one inch.

SHIPPING LIMITATIONS

None

HANDLING PRECAUTIONS PRODUCT SAFETY

INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 27°C (80°F), DOWSIL Q3-7062 RTV Silicone Rubber has a shelf life of six months from the date of shipment. Since this material cures by reaction with moisture in the air, keep the container tightly sealed when not in use.

LIMITATIONS

Do not use for applications where the product will be in constant contact with gasoline, synthetic fuels, or solvents. Do not use in totally confined applications; sealant must have exposure to moisture from the atmosphere to cure.

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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