



Technical Data Sheet

Physical Data

Unvulcanized Rubber

Specific Gravity (DIN 53479)	1.04
Skin Over Time	5 to 20 mins
Tack-Free Time	60 to 180 mins
Extrusion Rate at 2.5 bar (nozzle diameter : 3mm (0.12"))	ca. 45 g/min
Extrusion Rate at 6.3 bar (nozzle diameter : 3mm (0.12"))	ca. 250 g/min

Vulcanized Rubber (measured after curing for 7 days at 23 °C in 50% RH)

Tensile strength (DIN 53504 S2)	ca. 1.7 Mpa
Elongation at Break (DIN 53504 S2)	ca. 400 %
Hardness Shore A (DIN 53505)	ca. 25
100% Module (DIN 53504 S2)	ca. 0.5 Mpa
Shear Strength (aluminum) (DIN 53283)	ca. 0.8 Mpa
Shear Strength (Cr/Ni steel) (DIN 53283)	ca. 0.7 Mpa
Dielectric Constant (DIN 53453)	ca. 2.9
Dielectric Factor (DIN 53483)	ca. 19 . 10
Volume Resistivity (DIN 53482)	ca. 1. 10 ohm.cm
Dielectric Strength (DIN 53481)	21 kv/mm

Characteristics

- OCI / Orgafix Black RTV is a non-slumping, one component, acetate-curing rubber paste that cures to a permanently flexible silicone rubber on exposure to atmospheric moisture at room temperature.
- Seals made from OCI / Orgafix Black RTV exhibit an outstanding resistance to weathering, moisture, UV light and extreme temperature between -62 °C and +317 °C. It is also highly resistant to oil, grease and vibration.
- It may be applied to both horizontal and vertical surfaces and may also be used to protect and repair electrical wiring.
- Black RTV adheres to glass, metal, wood, painted surfaces, silicone rubber and some plastic.
- Since the composition of the substrates can vary greatly, adhesion tests for the specific cases are advisable.



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Application

- OCI / Orgafix Black RTV is a ready to use, solvent free silicone sealant which is primarily designed for general purposed sealing and bonding applications.
- The consistency of the uncured material allows a high application rate and makes it good choice not only for dispensing from a caulking gun but also for automatic dispensing.
- The silicone rubber form from Black RTV retains elastomeric properties for long period at temperature up to 317 °C for short periods.
- OCI / Orgafix Black RTV is well suited as Formed-in-Place-Gasket (FIPG) material for flange sealing, for example on transmissions, compressors and pumps.
- Black RTV may also be used for :
 - Assembling valve and timing cover, crankcase, radiator, thermostat
 - Bonding gaskets in heating and cooling systems appliances.
 - Sealing connecting joints, flanged pipe joints.
 - Repairing cables.

Surface Preparation

- Ensure all surfaces that will be in contact with the sealant must be clean, dry, free of dust ,dirt, rust, oil and other contaminants.
- Nonporous substrates should be clean with solvent and wipe dry immediately with cloth before the solvent evaporates from the surface. Porous surfaces should be roughen with a stiff-bristled brush, rubbed down or sandblasted.
- Remove the gap and punch a hole on the tube with the gap's sharp edge. Cut off tip nozzle and screw on nozzle to tube.
- Apply on surface in steady flow by hand pressing.
- If required, smooth and shape sealant with spatula dipped in mild detergent.
- To remove excess uncured sealant with a mineral turpentine soaked cloth. Fully cured excess sealant can be removed by trimming with a sharp knife.
- Content fully cures in 48 hours.

For Best Results

- To obtain a smooth and neat finish, apply masking tape and remove before sealant cures.
- Paint surfaces completely before applying sealant.



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Safety Precaution

- Ensure good ventilation if used indoors.
- Contact of unvulcanised silicone sealant with eyes and mucuous membranes must be avoided as this will cause irritation.
- Prolonged contact with eyes, flush with water and consult physician.
- Keep out of reach of children.

Storage

- Store in dry and cool place below +30 °C.
- Use within 12 months from the date of purchase.

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