

Silbione® RTV 4410 A&B

October 2017

Elastomer for Special Effects Applications

Description Silbione® RTV 4410 A/B is a two component, 10 durometer, room temperature curable silicone elastomer designed for use in special effects applications, especially where flexibility and repetitive motion is required. It's superior physical properties and softness also allows use in orthopedic applications.

Applications Animatronics; special effect skins
Orthopedic; sport shoes
Cushioning applications

Advantages Easy to use
Excellent combination of softness and strength
May be used for skin contact applications

Typical Properties

| As Supplied | Test Method | Unit | SILBIONE® RTV 4410 A | SILBIONE® RTV 4410 B |
|-------------------------------|--------------------|--------------------------|----------------------|----------------------|
| | CTM | | | |
| • <i>Appearance</i> | TP 038 | | Low Viscosity Liquid | Low Viscosity Liquid |
| • <i>Color</i> | TP 038 | | Translucent | Transparent |
| • <i>Viscosity</i> | | Cps | 2,500 | 2,500 |
| • <i>Specific Gravity</i> | TP 013 | | 1.1 | 1.1 |
| • <i>Mix Ratio</i> | | | | 1:1 |
| • <i>Pot Life, 23°C</i> | NM 128 | minutes | | 90 |
| • <i>Cured</i> | Test Method | Unit | Value | |
| | ASTM | | | |
| • <i>Hardness¹</i> | D 2240 | Shore A | 10 | |
| • <i>Tensile Strength</i> | D 412 | psi (N/mm ²) | 430 (3.0) | |
| • <i>Elongation</i> | D 412 | % | 800 | |
| • <i>Tear Strength</i> | D 624, Die B | ppi (N/mm) | 80 (15) | |

¹ 6mm thick disk

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of Silbione® silicone materials. Please contact our Technical Service Department for assistance in writing specifications.

Instructions for use Parts A and B components of Silbione® RTV 4410 are designed to be mixed in equal parts using standard processing equipment and techniques. Airless mixing, metering and dispensing equipment are recommended for production operations. Accurate measuring and complete mixing are essential factors in obtaining consistent results.

Cleaning Special care must be taken to assure clean molds and a clean work area with no organic rubbers used on the same processing equipment. Traces of foreign materials can poison the catalyst and inhibit the cure. All metering and mixing equipment should be thoroughly cleaned. Traces of amines, metal salts, sulfur and epoxy resin catalysts can interfere with the cure of this product and should be avoided. Do not use latex gloves when handling these products.

Curing Curing is typically achieved at room temperature. Curing time can be decreased by increasing temperature.

Storage and shelf life Silbione® RTV 4410 when stored in its original unopened packaging, at a temperature of 24°C (77°F), may be stored for 12 months from the date of manufacture. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.



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Safety

Please read the container labels for **Silbione® RTV 4410** or consult the Safety Data Sheet (SDS) before handling for safe use, physical and health hazard information. The curing agent for this material can generate a flammable gas upon contact with acidic, basic, or oxidizing materials. Precautions to avoid contact of this curing agent with these materials should be exercised.

Packaging

Silbione® RTV 4410 A/B is available in kits of 36 kg or 400 kg.

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