

BLUESIL RTV 3611 A

Description	BLUESIL RTV 3611 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.
Examples of applications	<ul style="list-style-type: none"> •Animatronics; special effect skins •Props for the film industry •Theme park props and reproduction molds •Cushioning applications
Key benefits	<ul style="list-style-type: none"> •Translucent – can be pigmented •Easy to use •Excellent combination of softness and mechanical strength •Low viscosity

Typical properties	BLUESIL RTV 3611 A	BLUESIL RTV 3611 B
Viscosity ISO 2555	2000 cP	2000 cP

As Supplied	Test Method	Unit	BLUESIL RTV 3611 A	BLUESIL RTV 3611 B
	CTM			
Appearance	TP 038		Low Viscosity Liquid	Low Viscosity Liquid
Color	TP 038		Translucent	Transparent
Viscosity		Cps	2,500	2,500
Specific Gravity	TP 013		1.1	1.1
Mix Ratio			1:1	1:1
Pot Life, 23°C	NM 128	Minutes	90	90

Cured	Test Method	Unit	Value
	ASTM		
Hardness ¹	D 2240	Shore A	10
Tensile Strength	D 412	psi (N/mm ²)	430 (3.0)
Elongation	D 412	%	800
Tear Strength	D 624, Die B	ppi (N/mm)	80 (15)

1) 6mm thick disk

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use	<p>1. Mixing the two components</p> <p>Components A and B are mixed by weight in 1:1 ratio. Mixing can be carried out either by hand or using a low-speed electric or pneumatic mixer to minimize the introduction of air and to avoid any temperature increase. It is also possible to use a special mixing and dispensing machine for the two silicone components. Further information is available upon request.</p> <p>2. Degassing</p>
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The mixture should be degassed, preferably at 30 to 50 mbar to eliminate any entrapped air. If a dispensing machine is used, the two components are degassed separately prior to mixing. The silicone mixture expands to 3 to 4 times of its initial volume and bubbles rise to the surface. The bubbles progressively disappear and the mixture returns to its initial volume after 5 to 10 minutes. Wait a few minutes to complete the degassing and then flash the vacuum. The silicone is ready for pouring, either by gravity or under low pressure.

Note: (Flashing the vacuum once or twice accelerates the degassing. It is recommended to use a container with a high diameter / height ratio.)

3. Polymerization

The system polymerizes at 23 °C. The curing may be slowed down by lowering the temperature and accelerated by adding heat.

4. Inhibition

Contact with certain materials can inhibit the crosslinking. See list below:

- natural rubbers vulcanized with sulphur,
- RTV 2 silicone elastomers catalyzed with metal salts, e.g. tin-compounds,
- PVC stabilized with tin salts and additives,
- epoxy resins catalyzed with amines,
- certain organic solvents, e.g. ketones, alcohols, ether etc.

In case of doubts, it is recommended to test the substrate by applying a small quantity of the mixed silicone on a restricted area.

Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	<ul style="list-style-type: none"> • BLUESIL RTV 3611 A is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) ○ Pail of 18 KG (39.69 LB) • BLUESIL RTV 3611 B is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) ○ Pail of 18 KG (39.69 LB)
Storage and shelf life	<p>When stored in its original packaging:</p> <p>BLUESIL RTV 3611 A may be stored at temperatures between -10°C / 14°F and 30°C / 86°F for up to 6 months from its date of manufacturing.</p> <p>BLUESIL RTV 3611 B may be stored at temperatures between -10°C / 14°F and 30°C / 86°F for up to 6 months from its date of manufacturing.</p> <p>Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.</p>
Safety	Please consult the Safety Data Sheet of: BLUESIL RTV 3611 A and BLUESIL RTV 3611 B

Visit our website www.elkem.com/silicones/

Warning to the users

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