TECHSIL RTV27941 A & B

Techsil RTV27941 is a translucent high strength two-component, addition cure liquid silicone rubber designed for mould making. Techsil RTV27941 cures at room temperature to a translucent high strength elastic rubber with the addition of cure agent.

Key Performance Properties

- Excellent moulding durability to epoxy resin and polyurethane resins.
- Excellent release ability.
- Low viscosity.
- Excellent tear and tensile strength
- Low shrinkage (room temperature cure)

Applications

- Prototype mould making for electronics industry such as TV's, home appliances, mobile phones, copy machines etc
- Prototype mould making for the automotive industry such as console boxes, radiator grills, lamp housing etc

Typical Product Data

Base Properties		**Techsil RTV27941 A**
Appearance		Translucent
Viscosity	mPa's	45,000
Catalyst Properties		**Techsil RTV27941 B**
Appearance		Translucent
Viscosity	mPa's	1,500
Mix ratio	Wt %	10:1
Work life (23°C)	Minutes	90
Demould time	H	24
Cured Properties		**72 H / 25°C**
Appearance		Translucent
Density	g/cm³	1.1
Hardness	Shore A	41
Tensile strength	MPa	6.4
Elongation	%	360
Tear strength	N/mm	20
Linear shrinkage	%	0.1

Mixing

Select a mixing container 4-5 times larger than the volume of RTV silicone rubber compound to be used. Weigh out the RTV silicone rubber base compound (A) and add the appropriate amount of curing agent (B). With clean tools, thoroughly mix them, scraping the sides and the bottom of the container carefully to produce a homogenous mixture.

Contact Details

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Degassing

Air entrapped during mixing should be removed to eliminate voids in the cured rubber. Expose the mixed material to a vacuum of 10-20 mbar. The material will expand, crest, and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing ceases. Automatic equipment designed to meter, mixes de-aerates and dispense two/component RTV silicone rubber compounds will add convenience to continuous or large volume operations.

Curing

Techsil RTV27941 silicone rubber compound will cure sufficiently in 24 hours at 25°C. To achieve faster cure speeds, elevated temperatures may be used.

Caution

Techsil RTV27941 will cure in contact with most clean and dry surfaces. However certain materials, such as butyl and chlorinated rubber, sulphur-containing materials, amines and certain metal soap-cured RTV silicone rubber compounds can cause cure inhibition.

Handling and Safety

Material Safety Data Sheets are available on request from Techsil.

Storage

Keep in unopened containers below 25°C. Use By Date will be indicated on associated documents.

DISCLAIMER

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