



Description

Insulcast® RTVS A-4000 is a solvent-based two component silicone resin adhesive with excellent lap shear and peel strengths at elevated temperatures. RTVS A-4000 can be used to bond silicones, mylar, metals, and many engineered plastics and will maintain significant peel strength up to 149°C as well as retain flexibility over a temperature range of -73°C to 260°C. RTVS A-4000 holds MIL-A-47317(MI) Military Specification.

Typical Uncured Properties	Part A	Part B
Color	Light Straw	Clear
Mix Ratio by Weight	100	3.3
Component Density, g/ml	0.99	0.95
Component Viscosity, cP @25°C	3000	50
Pot Life @25°C, min.	24	
Shelf Life, Months @25°C	6	
Solids, %	55	
Solvent	Toluene	

Typical Cured Properties	
Service Temperature, °C	-73 to 260
180° Peel Strength, (mylar-mylar), oz/in	36
Lap Shear @25°C, (mylar-mylar), MPa	0.90
Lap Shear @25°C, (silicone-Al), MPa	0.83
Dielectric Strength, kV/mm	450

Typical Cure Schedule

Temperature	25°C (77°F)	200°C (392°F)
Cure Time, hrs	24 - 96	8

Mixing Instructions

1. Measure out correct portions of Part A and Part B
2. Mix thoroughly, Apply to both surfaces to be bonded.
3. Allow solvent to evaporate for 30 minutes.
4. Mate both surfaces together.



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Storage Requirements

Store at room temperature. Store material in a cool dry place.



RTVS A-4000

Safety & Handling

ITW Performance Polymers (ITW PP) recommends users to follow all recommended safe practices for handling its products. Refer to the Safety Data Sheet (SDS) and label for health and safety information before using this product. Also refer to itwpp.com for additional information and other frequently asked questions. Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use goggles, protective garments, rubber gloves, protective cream is suggested. If material gets into eyes flush thoroughly with clean water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap. Observe all safety precautions. It is important when using solvent-based materials or solvents to keep away from open flame or ignition sources.

Product Use

Industrial Use Only. Many factors beyond ITW PP control and uniquely within user's knowledge and control can affect the performance of this product in any particular application. Given the variety of factors that can affect use and performance, the end user is solely responsible for evaluating any ITW PP product and determining its suitability and fitness for a particular purpose, product design, production, final application, and end result.

Exclusion of Warranties

The Data stated here are typical values and offered in good faith. Given the variety of factors that can affect the use and performance of an ITW PP product, the end user is responsible for evaluating any ITW PP product and determining whether it is fit for purpose and suitable for user's design, production, and final application. Unless an additional Warranty is expressly stated, ITW PP warrants that the ITW PP product meets the applicable ITW PP product specification at the time ITW PP Ships the product. As to the herein described materials and test results, there are no warranties which extend beyond the description on the face hereof. ITW PP MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. IF THE ITW PP product does not conform to this warranty, then the sole and exclusive remedy is, at ITW PP's option, replacement of the ITW PP product or refund of the purchase price.

Limitation of Liability

Except where prohibited by law, ITW PP shall not otherwise be liable for loss of damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.



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Last Update Date:

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