



## **DOWSIL™ InstantGlaze LV Adhesive/Sealant**

Reactive hot-melt silicone assembly adhesive and sealant

### **Features & Benefits**

- Instant green strength
- 100% silicone
- Low VOC (VOC exempt in CA)
- Safe to handle – nonhazardous composition and by-products
- Neutral cure
- Adheres to most common substrates
- Open time up to 15 minutes
- Pot Life up to 24 hours @120°C
- High clarity
- Service temperatures from -50 to 300°F (-45 to 150°C)
- Can be used with standard hot melt dispensing equipment
- Immediate green strength
- Lower viscosity at dispensing temperatures, allow for fine size beads and can be dispensed in fiberized or spiral patterns starting at 0.5 grams per square foot.
- Long open time, pot life and moderate application temperature is typically between 200 and 265°F (93 and 130°C) offering a user-friendly application

### **Composition**

- Moisture curing, 100 percent silicone, reactive hot-melt adhesive/sealant

### **Applications**

DOWSIL™ InstantGlaze LV Adhesive/Sealant hot-melt adhesive is designed for use in assembly and lamination. Based on a reactive silicone hot-melt technology, DOWSIL™ InstantGlaze LV can be dispensed in fine beads, fibers, or spiral patterns. Silicone pressure-sensitive adhesive (PSA) technology provides green strength and adhesion, and a silicone cross-linking chemistry allows the adhesive to cure to its ultimate properties.

## Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test	Property	Unit	Result
CTM <sup>1</sup> 0719	Viscosity at 248°F (120°C)	poise	240
CTM 0086	Nonvolatile content	percent	> 98.5
CTM 0243	Open time <sup>2</sup>	minutes	15
CTM 0243	Green strength at 15 minutes	Psi	0.6
	Cure time, <sup>3</sup> 1/8" bead @ RT, 50% RH	days	2
ASTM <sup>4</sup> C 661	Durometer – Shore A	points	17
ASTM D412	Tensile strength	psi	440
ASTM D412	Elongation	%	1700
ASTM D412	Modulus at 50% elongation	psi	19
CTM 0044	Specific gravity	Uncured	1.05
CTM 0176	Appearance		Clear
ASTM C 711	Service temperature range	°F °C	-50 to 300 -45 to 150
ASTM D4498	Heat-fail temp in shear	°F (°C)	490 (255)

1. CTMs: (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.
2. To ensure adhesion.
3. Full cure in application will depend on the design of the manufactured unit.
4. ASTM: American Society for Testing and Materials.

## Description

DOWSIL™ InstantGlaze LV Adhesive/Sealant is a 100 percent silicone, neutral-cure, pressure-sensitive, hot-melt adhesive and sealant formulated to have immediate adhesion which offers assembly improvements and uses in many production applications. In many cases, products made with this can be immediately handled.

Application temperature is typically between 200 and 265°F (93 and 130°C). Once applied, this product reacts with atmospheric moisture to form a flow-resistant silicone adhesive. As a cured viscoelastic material, DOWSIL™ InstantGlaze LV will soften when exposed to high temperatures but recover to its cured properties upon cooling.

## Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Material is applied between 200 and 265°F (93 and 130°C). Use common personal protective equipment to prevent contacting the hot material with skin or eyes.

## Usable Life and Storage

DOWSIL™ InstantGlaze LV Adhesive/Sealant has a shelf life of 18 months from date of manufacture.

## Packaging Information

DOWSIL™ InstantGlaze LV Adhesive/Sealant is available in 22 kg pails and drums containing 205 kgs.

## Limitations

When cured, DOWSIL™ InstantGlaze LV Adhesive/Sealant is a viscoelastic solid with mechanical properties that will vary with temperature and the rate of mechanical testing. At very low temperatures, DOWSIL™ InstantGlaze LV offers flexibility without becoming brittle, but at high temperatures DOWSIL™ InstantGlaze LV will soften, but will display recoverable movement depending on the application.

Avoid prolonged exposure to citrus containing cleaners, solvents and solvent-based cleaners.

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [consumer.dow.com](http://consumer.dow.com) or consult your local Dow representative.

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### LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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