



DOWSIL™ 895 Structural Glazing Sealant

For PV frame sealing and junction box bonding



A long-lasting, secure connection

Regardless of the climate or weather conditions, durability and longevity of PV modules rely on excellent sealing and water ingress prevention. Excellent and durable adhesion is therefore essential for both module frame and junction box attachment to photovoltaic (PV) laminates.

In particular, PV laminates that are integrated in the skin of buildings need to operate safely and efficiently for the duration of the other facade or roof components, typically exceeding the 25 to 30-year lifetime of conventional PV modules. Therefore, sealing and bonding properties of the materials used are critical to their overall performance.

Dow's structural sealants have shown superior durability in the construction industry for over 50 years. These sealants have proven performance in curtain wall glass facades.

DOWSIL™ 895 Structural Glazing Sealant is another solution from Dow's product portfolio designed to exceed the industry's expectations, providing excellent performance in frame sealing and junction box bonding applications for PV laminates.

DOWSIL™ 895 Structural Glazing Sealant develops primerless adhesion to most substrates used for PV modules, including common backsheet materials, glass, and aluminium.

DOWSIL™ 895 Structural Glazing Sealant

Features and benefits

- Primerless adhesion to glass, aluminium and common backsheet materials, including fluorinated polymers
- Proven stability and durability in all environmental conditions
- Excellent performance in demanding applications where reliability is paramount (structural glazing)



DOWSIL™ 895 Structural Glazing Sealant

Properties specific to PV applications

These values are not intended for use in preparing specifications.

Test	Property	Unit	Result
	As supplied		
	Color		White or Black
	Consistency		Non-slump paste
ASTM D2452	Extrusion rate	g/min	180
	As cured — after 7 days at 25°C and 50% RH		
ASTM D0149	Dielectric strength	kV/mm	17
ASTM D0257	Volume resistivity	Ohm cm	2 x 10 ¹⁵
UL 94	Flammability		HB (1.5, 3, 5mm) V1 (5, 10mm)
UL 746B	Relative Thermal Index (RTI) electrical strength	°C	140
UL 746B	Relative Thermal Index (RTI) mechanical impact	°C	105
UL 746B	Relative Thermal Index (RTI) mechanical strength	°C	115
UL 746A	Hot-Wire Ignition (HWI)		4PLC (1.5mm), 2PLC (2mm)
U L746A	High Amp ARC Ignition (HAI)		2PLC (1.5mm), 0PLC(5mm)
UL 746A	Comparative Tracking Index (CTI)		1PLC
ASTM D2303	Inclined-Plane Tracking (IPT)	kV	2.5
UL 746C	UV exposure & water immersion		f2

ASTM: American Society for Testing and Materials
UL: Underwriters Laboratories
Please contact your local Dow Technical Specialist for further information.

For more information

Learn more about Dow's full range of High Performance Building solutions by visiting us online at dow.com/highperformancebuilding. Dow has sales offices, manufacturing sites and science and technology laboratories around the globe. Find local contact information at dow.com/contactus.



Dow High Performance Building website:
dow.com/highperformancebuilding



Contact Dow High Performance Building:
dow.com/customersupport

Images: dow_141930763, dow_198975042, dow_222168298

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 WWW.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2021 The Dow Chemical Company. All rights reserved.

2000012480

Form No. 62-2216-01-0921 S2D

To apply:

1. Clean the surface and ensure that it is dry. If needed, remove any grease from the surface. Some plastic surfaces require surface treatment to obtain maximum adhesion.
2. Apply a bead of DOWSIL™ 895 Structural Glazing Sealant to one of the surfaces, then press both surfaces together to obtain contact between the adjoining substrates for the bond to form.

The material will develop a skin in about 10 minutes so the application should be completed before the skin forms. Curing will progress from the surface towards the inner part of the bead.

