



Ultra Light-Weld® 3089-SV01 Low Stress Bonding and Laminating Adhesive

Dymax Ultra Light-Weld® 3089-SV01 is a very fast curing, flexible UV adhesive. It forms resilient bonds to metal, glass, and a wide variety of plastics including PET and polyester. Dymax Ultra Light-Weld structural adhesives can be cured with UV or visible light. Ultra Light-Weld adhesives faster, deeper cures increase productivity, lower assembly costs, and enhance worker safety. When cured with Dymax UV lamps, these adhesives provide optimum process flexibility. They allow the user to select the optimum combination of adhesive and cure mechanism to meet individual process and performance requirements. This product is in full compliance with RoHS directives 2015/863/EU.

CURED MECHANICAL PROPERTIES *		
Property	Value	Test Method
Durometer Hardness	A65	ASTM D2240
Tensile at Break, MPa [psi]	2.1 [300]	ASTM D638
Elongation at Break, %	225	ASTM D638
Modulus of Elasticity, MPa [psi]	3.3 [475]	ASTM D638

OTHER CURED PROPERTIES *		
Property	Value	Test Method
Water Absorption, % (25°C, 24 h)	3.6	ASTM D570
Linear Shrinkage, %	1.9	ASTM D2566

TYPICAL UNCURED PROPERTIES *		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Colorless to Light Yellow	N/A
Soluble in	Organic Solvents	N/A
Viscosity, cP (20 rpm)	12,000 (nominal)	ASTM D2556
Shelf Life @ RT (22°C to 25°C) from Date of Manufacture	18 months	N/A

* Not Specifications

N/A Not Applicable

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CURING GUIDELINES

	Cure Time (sec)	Intensity (mW/cm ²)	Cure Unit
Fixture between glassslides	1	50	2000-EC
Nominal cure depth	60	50	2000-EC

DISPENSING AND HANDLING

This material may be dispensed with a variety of manual, semi-automated, and fully automated fluid-delivery systems. Small-area applications, including beads and small dots, can be achieved using hand-held Dymax dispensing systems like our SD-100 syringe dispenser and Model 400 needle valve systems. The valve systems can be used in manual, semi-automated, or fully automated systems. Dymax has several other dispensing systems that may be suitable for use with our materials. Questions relating to and defining the best fluid-delivery system and curing equipment for specific applications should be discussed with the Dymax Application Engineering Team.

STORAGE AND SHELF LIFE

Store material in a cool, dark place when not in use. Do not expose to UV light or sunlight. Material may polymerize upon prolonged exposure to ambient light. Replace lid immediately after use. This material shelf life is noted on page 1 of this document, when stored between 10°C (50°F) and 32°C (90°F) in the original container.

GENERAL INFORMATION

This product is intended for industrial use only. Keep out of the reach of children. Avoid breathing vapors. Avoid contact with skin, eyes, and clothing. Wear impervious gloves. Repeated or continuous skin contact with uncured material may cause irritation. Remove material from skin with soap and water. Never use organic solvents to remove material from skin and eyes. For more information on the safe handling of this material, please refer to the Safety Data Sheet before use.

The data provided in this document are based on historical testing that Dymax performed under laboratory conditions as they existed at that time, and are for informational purposes only. The data are neither specifications nor guarantees of future performance in a particular application. Dymax does not guarantee that this product's properties are suitable for the user's intended purpose.

Numerous factors—including, without limitation, transport, storage, processing, the material with which the product is used, and the ultimate function or purpose for which the product was obtained—may affect the product's performance and/or may cause the product's actual behavior to deviate from its behavior in the laboratory. None of these factors are within Dymax's control. Conclusions about the behavior of the product under the user's particular conditions, and the product's suitability for a specific purpose, cannot be drawn from the information contained in this document.

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INDUSTRIAL ADHESIVES
3089-SV01 Product Data Sheet

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