

LIGHT WELD[®] GB212UV
OPTICALLY CLEAR STRUCTURAL ADHESIVE
MEDIUM VISCOSITY - GLASS ASSEMBLY

DESCRIPTION

DYMAX Light Weld GB212UV forms very strong bonds between glass substrates. These durable bonds are extremely clear, highly resistant to yellowing, and resist moisture (“dishwasher safe”) and vibration. The cured resin is very hard (durometer hardness D75).

TYPICAL UNCURED PROPERTIES

Solvent Content	None	
Composition	100% Solids	
Appearance	Clear	
Solubility	Isopropyl Alcohol	
Toxicity	Low	
Flash Point	>95° C (>200° F)	
Viscosity (20 rpm) ^(note 1)	1,500 cP (nominal)	ASTM D-1084

TYPICAL CURED PROPERTIES*PHYSICAL*

Durometer Hardness	D75	ASTM D-2240
Tensile at Break	3,500 psi	ASTM D-638
Elongation at Break	39%	ASTM D-638
Tensile at Yield	4,200 psi	ASTM D-638
Elongation at Yield	6%	ASTM D-638
Tensile (Compression) Glass-to-Glass	3,200 psi	
Water Absorption (24 hr)	0.7%	ASTM D-570
Refractive Index	1.50	

CURE DATA - Using 365 nm wavelength UV light ^(note 2):

	Cure Time (seconds)	Intensity ^(note 3) <u>mW/cm</u>	Dymax Light-Welder [®] <u>Lamps</u>
Fixture Between Glass Slides	>1	50	2000-EC
Depth of Cure (0.25”)	60	50	2000-EC
Tack Free Cure Time	30	250	5000-EC
	2	2,500	Fusion F-450

DISPENSING & HANDLING ADHESIVE

Dymax GB212UV is available in various packages such as syringes, cartridges, bottles or pails. It may be dispensed with a variety of automatic bench-top syringe applicators or other equipment as required. Direct questions relating to dispensing and curing systems for specific applications to Dymax Technical Representatives.

SAFETY

Repeated or continuous skin contact with liquid adhesive ("resin") will cause skin irritation or contact dermatitis, which in some cases, can be severe. Avoid this possibility by wearing impervious gloves and/or a barrier cream. Gloves made of rubber (including latex and any other rubber product) are not impervious. Nitrile (an artificial rubber) is preferred. Do not breathe the vapors from the adhesive. The user must be familiar with the Material Safety Data Sheet for the product before use. UV light can damage your eyes. Read and follow all instructions for the safe use of any UV light source that come with the device.

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. Product has a one-year shelf life when stored below 90°F in the original unopened container. Refrigerated storage extends shelf life.

CAUTION

For industrial use only. Avoid breathing vapors. Avoid contact with eyes and clothing. In case of contact, immediately flush with water for at least 15 minutes; for eyes, get medical attention. Wash clothing before reuse. Keep out of the reach of children. Do not take internally. If swallowed, induce vomiting at once and call a physician. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. For specific information, refer to the Material Safety Data Sheet.

NOTES

- 1 - Measured at 20 rpm and 25°C using a Brookfield Model RVF Viscometer.
- 2 - Use of lamps that emit high levels of short wave light (for example, more than 15% 200-300 nanometer UV light) are not recommended.
- 3 - Nominal intensity taken at a predetermined distance. This reading does not reflect the maximum intensity capabilities emitted from each unit.

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The data contained in this bulletin which represents typical results, is furnished for information only, and is believed to be reliable. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the users responsibility to determine suitability for the user's purpose of any product or method mentioned herein and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use thereof. Nothing in this bulletin is to be interpreted as a representation of freedom from domination of patents owned by others or a license under a Dymax Corporation patent. We recommend that each prospective user test the proposed application before repetitive use, using the data as a guide. For specific information, refer to the Material Safety Data Sheet before use.

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