
LIGHT-WELD[®] GB217UV
OPTICALLY CLEAR STRUCTURAL ADHESIVE
GLASS ASSEMBLY**DESCRIPTION**

DYMAX Light Weld GB217UV forms very strong bonds between glass substrates. These durable bonds are extremely clear, highly resistant to yellowing, and resist moisture ("dishwasher safe") and vibration. GB217UV is very similar to GB212UV but has a slightly higher durometer hardness (D80) and a higher viscosity (4,000 cP).

TYPICAL UNCURED PROPERTIES

Solvent Content	None
Composition	100% Solids
Appearance	Clear
Solubility	Isopropyl Alcohol
Toxicity	Low
Flash Point	95° C (200° F)
Viscosity ^(note 1)	4,000 cP

TYPICAL CURED PROPERTIES*PHYSICAL*

Durometer Hardness	D80	ASTM D-2240
Tensile at Break	6,200 psi	ASTM D-638
Elongation at Break	7.3%	ASTM D-638
Tensile at Yield	7,300 psi	ASTM D-638
Elongation at Yield	3.5%	ASTM D-638
Tensile (Compression) Glass-to-Glass	4,000 psi	*DSTM D-250
Modulus of Elasticity	500,000 psi	ASTM D-638
Water Absorption	0.7%	ASTM D-570
Refractive Index	1.50	Bausch & Lomb Refractometer
Linear Shrinkage	1.9%	

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

	Cure Time (seconds)	Intensity ^(note 3) mW/cm	Dymax Light-Welder [®] Lamps
Fixture Between Glass Slides	>1	50	2000-EC
Nominal Cure Depth (0.250")	60	50	2000-EC
Tack Free Cure Time	30	250	5000-EC
	2	2,500	Fusion F-450

DISPENSING & HANDLING ADHESIVE

Dymax GB217UV 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 the Dymax Technical Center at (860) 482-1010.

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. Light-Weld GB217-A has a minimum one-year shelf life when stored below 90°F out of sunlight in the original container.

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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