

ULTRA FAST™ 9-3095-GEL

FAST, TACKING ADHESIVE

INTRODUCTION

Dymax Ultra Fast structural adhesives can be cured with UV or Visible light. Ultra Fast adhesives faster, deeper cures, increase productivity, lower assembly costs and enhance worker safety. When cured with Dymax Light-Welder® 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.

DESCRIPTION

Ultra Fast 9-3095-Gel is designed for the fastest bonding, tacking, and sealing possible with photocurable adhesives. A solvent-free, visible and UV curing adhesive, 9-3095-Gel dispenses easily and cures "on demand" for precise bonding and placement of components. Excellent adhesion to common PCB substrates, fabric and other porous surfaces, and it's shock absorbing capability make it an excellent choice for a variety of potting and tacking applications.

TYPICAL UNCURED PROPERTIES

Solvent Content	None - 100% reactive solids	
Chemical Class	Urethane (Meth) Acrylate	
Appearance	Straw	
Solubility	Alcohols/Chlorinated Solvents/Ketones	
Toxicity	Low	
Flash Point	>95°C (200°F)	
Viscosity (20 rpm)	25,000 cP (nominal)	ASTM D-2556

TYPICAL CURED PROPERTIES

PHYSICAL

Durometer Hardness	D65	ASTM D-2240
Elongation at Break	20%	ASTM D-638
Tensile at Break	2,600 psi	ASTM D-638
Modulus of Elasticity	100,000 psi	ASTM D-638
Water Absorption (24 h)	5.0%	ASTM D-570
Boiling Water Absorption (2 h)	5.0%	ASTM D-570

TYPICAL LIGHT CURE DATA

Lamp	2000-EC	5000-EC	PC-3	3010-EC
Light Type	UV	UV	UV	UV
Lamp Type	Flood	Flood	Spot	Spot
Intensity (mW/cm ²) at Peak	50 @	150 @	1000 @	1800 @
Wavelength	365 nm	365 nm	365 nm	365 nm
Wavelength (nm) Working Range	300-500	300-500	300-500	300-500
Cure Speed (sec)				
Between Glass	<1	<1	<1	<<1
1/8" Bead	<5	<2	<1	<1
Surface Cure	5	3	2	1
Cure Depth in 1 Minute (inch)	.5	.5	.5	.5
X = Not Measured				

DISPENSING AND HANDLING ADHESIVE

Dymax 9-3095-Gel is available in various packages such as syringes, cartridges, bottles, and 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.

Wear impervious gloves and/or barrier cream. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. Do not wear absorbent gloves. Remove adhesive from skin with soap and water. Never use solvents to remove adhesive from skin or eyes.

STORAGE AND SHELF LIFE

Do not expose to UV light source or sunlight. Dymax 9-3095-Gel should be stored in a warm area 24°C (75°F) in the dark when not in use. Should product cool below 18°C (65°F), it may begin to crystallize and thicken. If this should occur, nominal viscosity can be restored by gentle warming at 38° to 49°C (100° to 120°F) with occasional stirring. This "freeze"/melt process has no effect on the product's properties. Dymax 9-3095-Gel has a one year shelf life when stored as above stated.

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; get medical attention. Wash clothing before reuse. Keep out of 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 product Material Safety Data Sheet.

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