

Ultra Light-Weld® 9008

Flexible, UV-Curable Encapsulant

Dymax Ultra Light-Weld® 9008 is a general purpose product for encapsulating and sealing electronic components in chip-on-board or chip-on-flex applications. 9008 forms flexible, highly moisture-resistant bonds to diverse surfaces such as polyimide (Kapton®), DAP, glass, epoxy board, metal, and PET. 9008 remains flexible to -40°C, making it ideal for COF applications. This product is in full compliance with the RoHS Directives 2002/95/EC and 2003/11/EC.

UNCURED PROPERTIES (not specifications)

Solvent Content	None	
Composition	Urethane Oligomer/(Meth)Acrylate Monomer Blends	
Appearance	Clear/Light Straw Liquid	
Flash Point	>93°C (200°F)	
Solubility	Alcohol/Chlorinated Solvents/Ketones	
Viscosity	4,500 cP (nominal)	ASTM D-2556

CURED PROPERTIES (not specifications)

PHYSICAL

Durometer Hardness	A85	ASTM D-2240
Tensile at Break	900 psi	ASTM D-638
Elongation at Break	300%	ASTM D-638
Thermal Limit (brittle/degrades)	-55° to 177°C (-65° to +350°F)	DSTM D-200*
Water Absorption	1.0%	ASTM D-570
Linear Shrinkage	1.2%	ASTM D-2556

*DSTM refers to Dymax Standard Test Method
Kapton® is a registered trademark of DuPont

UV LIGHT-CURE DATA - Using 365 nanometer UV light ^[1].

	<u>Cure Time (Seconds)</u>	<u>Intensity ^[2] (mW/cm²)</u>	<u>Dymax Lamps</u>
Fixture between glass slides	4	100	2000-EC
Depth of cure (0.25 inches)	5	250	5000-EC
	1	2,500	Fusion D Bulb

STORAGE AND SHELF LIFE

Store the material in a cool, dark place when not in use. Do not expose to light. This product may polymerize upon prolonged exposure to ambient and artificial light. Keep covered when not in use. This material has a minimum 12-month shelf life from date of shipment, unless otherwise specified, when stored between 10°C [50°F] and 32°C [90°F] in the original, unopened container.



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Technical Data Collection Prior to 2003

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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 reach of children. Do not take internally. If swallowed, vomiting should be induced at once and a physician called. For specific information, refer to the Material Safety Data Sheets before use.

NOTES

- [1] Use of lamps that emit high levels of shortwave light (for example, more than 15% 200-300 nanometer UV light) is not recommended.
- [2] Nominal intensity taken at a predetermined distance. This reading does not reflect the maximum intensity capabilities emitted from each unit.