

Ultra-Fast™ 9008 Flexible, UV-Curable Encapsulant

DESCRIPTION

DYMAX Ultra-Fast™ 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 2003/11EC.

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	
Toxicity	Low	
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].

	Cure Time (seconds)	Intensity ^[2] mW/cm ²	DYMAX Light- Welder® Lamps
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.



DYMAX Corporation - 318 Industrial Lane - Torrington, CT 06790 - Phone: 860.482.1010 - Fax: 860.496.0608 - E-mail: info@dymax.com - www.dymax.com

DYMAX Europe GmbH - Trakehner Strasse 3 - D-60487 Frankfurt am Main - Germany - Phone: +49 (0) 69 / 7165-3568 - Fax: +49 (0) 69 / 7165-3830 - E-mail: dymaxinfo@dymax.de - www.dymax.de

DYMAX UV Adhesives & Equipment (Shenzhen) Ltd - Unit 807, Talfook Building, No. 9 Shi Hua Road, Futian Free Trade Zone, Shenzhen, China 518038 - Phone: +86.755.83485759 - Fax: +86.755.83485760 - E-mail: dymaxasia@dymax.com - www.dymax.com.cn

DYMAX Asia (HK) - Room 1103, 11/F., Metro Centre, Phase I, 32 Lam Hing St., Kowloon Bay, Hong Kong - Phone: +852.2460.7038 - Fax: +852.2460.7017 - E-mail: dymaxasia@dymax.com - www.dymax.com.cn

DYMAX Korea LLC - #903, CCMM B/D, 12 Yeoido-Dong, Youngdungpo-Gu, Seoul, Korea, 150-869 - Phone: 82-2-784-3434 - Fax: 82-2-784-5775 - E-mail: info@dymax.kr - www.dymax.co.kr

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.

© 2003-2011 DYMAX Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by DYMAX Corporation, U.S.A.

The data contained in this bulletin is of a general nature and is based on laboratory test conditions. DYMAX does not warrant the data contained in this bulletin. Any warranty applicable to the product, its application and use is strictly limited to that contained in DYMAX's standard Conditions of Sale. DYMAX does not assume responsibility for test or performance results obtained by users. It is the user's responsibility to determine the suitability for the product application and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this bulletin shall act as a representation that the product use or application will not infringe a patent owned by someone other than DYMAX or act as a grant of license under any DYMAX Corporation Patent. DYMAX recommends that each user adequately test its proposed use and application before actual repetitive use, using the data contained in this bulletin as a general guide.

Technical Data Collection Prior to 2003

Rev. 01/26/2011

DYMAX Corporation - 318 Industrial Lane - Torrington, CT 06790 - Phone: 860.482.1010 - Fax: 860.496.0608 - E-mail: info@dymax.com - www.dymax.com

DYMAX Europe GmbH - Trakehner Strasse 3 - D-60487 Frankfurt am Main - Germany - Phone: +49 (0) 69 / 7165-3568 - Fax: +49 (0) 69 / 7165-3830 - E-mail: dymaxinfo@dymax.de - www.dymax.de

DYMAX UV Adhesives & Equipment (Shenzhen) Ltd - Unit 807, Talfook Building, No. 9 Shi Hua Road, Futian Free Trade Zone, Shenzhen, China 518038 - Phone: +86.755.83485759 - Fax: +86.755.83485760 - E-mail: dymaxasia@dymax.com - www.dymax.com.cn

DYMAX Asia (HK) - Room 1103, 11/F., Metro Centre, Phase I, 32 Lam Hing St., Kowloon Bay, Hong Kong - Phone: +852.2460.7038 - Fax: +852.2460.7017 - E-mail: dymaxasia@dymax.com - www.dymax.com.cn

DYMAX Korea LLC - #903, CCMM B/D, 12 Yeoido-Dong, Youngdungpo-Gu, Seoul, Korea, 150-869 - Phone: 82-2-784-3434 - Fax: 82-2-784-5775 - E-mail: info@dymax.kr - www.dymax.co.kr