



# APTEK LABORATORIES, INC.

ISO 9001 / AS9100 Certified

28570 Livingston Avenue, Valencia, CA 91355-4171 • (661) 257-1677 FAX (661) 257-8939

## TECHNICAL DATA & INFORMATION

### UVIBOND™ 7100

Semi-rigid, UV-Curing Urethane Adhesive

#### PRODUCT DESCRIPTION

**UVIBOND 7100** is an unfilled, one component, electrically insulating, transparent, semi-rigid urethane adhesive designed for bonding polycarbonate, ABS, glass and other various substrates.

**UVIBOND 7100** is fully curable when exposed to the proper UV light radiation.

#### KEY FEATURES AND BENEFITS

- U.V. curable for extremely fast production output.
- Semi-rigid for high strength bonds with a degree of flexibility
- Low viscosity for easy handling and substrate wetting
- Low ionic impurities for electrical/electronic applications.
- Thixotropic version available for component staking, doming and bonding applications designated as UVISTAKE 7207.

#### HANDLING INFORMATION

**UVIBOND 7100** is a room temperature stable system. However, unlike conventional urethane systems, needs an oxygen/air environment to maintain stability. After opening factory sealed containers DO NOT PURGE with dry nitrogen or argon before resealing. Also, do not fill containers to top before resealing - leave approximately 15% of air space.

#### CURE SCHEDULE

Two passes under Fusion systems "D" bulb (300 W/in) at rate of 5 feet per min. Bulb height above coating surface should be adjusted to expose the coating to approximately 1.30 joules/cm<sup>2</sup> of radiation per pass.

The above cure schedule is typical for flat surfaces. Adjustments to the cure schedule may be necessary depending on the application, shape of surface, bulb type and wattage, etc. Customer should perform sufficient testing to determine completeness of cure for each application.

#### - DISCLAIMER NOTICE -

All statements, technical data, and recommendations expressed herein are based on tests believed to be reliable and accurate. However, APTEK LABORATORIES, INC. gives no warranty, expressed or implied, regarding the accuracy of this information. It is intended that the buyer and user of these products shall determine the suitability of the information provided for his specific application, and is responsible for its selection.

APTEK LABORATORIES, INC. shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use or misuse of these products, or of the information given in these data bulletins. Purchasers assume all risk and liability whatsoever in connection with the use of these products and this information.

**TYPICAL PROPERTIES**  
(not for specification purposes)

<b><u>CHARACTERISTICS</u></b>	<b><u>UVIBOND 7100</u></b>	<b><u>TEST METHOD</u></b>
Color	Clear pale yellow green	Visual
Specific Gravity	1.01	ASTM D-1475
Viscosity @25°C,cps	2000	ASTM D-1824
Shelf life, months @25°C, in factory sealed containers	6	
Hardness, Durometer A (taken one hr. after U.V. exposure, 1/16" casting)	95	ASTM D-2240

**SAFETY AND FIRST AID**

**UVIBOND 7100** is an unfilled blend of urethane oligomers and various acrylated monomers which are generally considered safe for use. No ingredients used are suspected or known carcinogens. As with all chemicals use these systems in well-ventilated areas and avoid breathing vapors.

In case of eye contact, flush with fresh clean water for at least 15 minutes; for skin contact, wash thoroughly with soap and water. If swallowed drink at least one pint of water and call a physician.

Revised: 04/05/18 - dH

**APTEK**® is a registered trademark of Aptek Laboratories, Inc.

**UVIBOND**™ is a registered trademark of Aptek Laboratories, Inc.

**UVISTAKE**™ is a registered trademark of Aptek Laboratories, Inc.