May 4, 2006

LOW STRESS PLASTICS BONDERS **ACRYLIC • STYRENE • POLYCARBONATE ULTRA LIGHT-WELD[®] 3094 SERIES**

INTRODUCTION

Dymax Ultra Light-Weld[®] 3094 Series adhesives can be cured with UV or visible light. Ultra Light-Weld adhesives 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 Light-Weld 3094 Series adhesives provide rapid bonding and sealing to ABS, polyacrylics, polycarbonate, polyurethane, styrene, and other plastic substrates. Solvent free, visible and/or UV curing adhesives, 3094-Series adhesives dispense easily and cure quickly for precise quantity and placement of adhesive. Bonds generally exceed the strength of substrates bonded, including PVC alloys, which resist most other bonding methods. 3094-Gel-F will fluoresce under a standard black light for visual inspection and in-line quality control.

TYPICAL UNCURED PROPERTIES (not specifications)

Solvent Content Chemical Class Appearance Solubility Toxicity Flash Point Viscosity (20 rpm) 3094 3094-T 3094-Gel 3094-Gel-F

None - 100% Reactive Solids Urethane (Meth) Acrylate Clear Alcohols/Chlorinated Solvents/Ketones Low >95°C (200°F) 1,000 cP (nominal) 8,000 cP (nominal) 25,000 cP (nominal) 25,000 cP (nominal)

ASTM D-2556 ASTM D-2556 ASTM D-2556 ASTM D-2556

TYPICAL CURED PROPERTIES (not specifications)

PHYSICAL

Durometer Hardness Elongation at Break **Tensile at Break** Modulus of Elasticity Water Absorption (24 h) Boiling Water Absorption (2 h) Thermal Limit (brittle/degrades) Linear Shrinkage

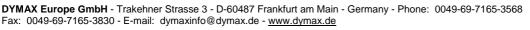
D60
300%
5,300 psi
21,000 psi
20%
8%
-55° to 180°C (-65°/+350°F)
1.2%

ASTM D-638 ASTM D-638 ASTM D-638 ASTM D-570 ASTM D-570 DSTM D-200* ASTM D-2566

ASTM D-2240

*DSTM refers to Dymax Standard Test Method

DYMAX Corporation - 51 Greenwoods Road - Torrington, CT 06790 - Phone: 860-482-1010 - Fax: 860-496-0608 E-mail: info@dymax.com - www.dymax.com





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DYMAX CORPORATION

PRODUCT DATA SHEET

3094 Series, May 4, 2006

TYPICAL 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 Wavelength	50 @ 365 nm	150 @ 365 nm	1000 @ 365 nm	1800 @ 365 nm
Wavelength (nm) Working Range	300-500	300-500	300-500	300-500
Cure Speed (seconds) Between Glass 1/8" Bead	1 7	1 3	1 6	1 7
Cure Depth in 1 Minute (inch)	3/16	9/16	1/8	3/16

DISPENSING AND HANDLING ADHESIVE

Ultra Light-Weld 3094 Series adhesives are available in various packages such as syringes, cartridges, bottles, and pails. They 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.

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

Store material in a cool, dark place when not in use. Do not expose to UV light or sunlight. Material may polymerize upon prolonged exposure to ambient light. Replace lid immediately after use. Product has a oneyear shelf life when stored below 32°C (90°F) in the original, unopened 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; 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's Material Safety Data Sheet.

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DYMAX Corporation - 51 Greenwoods Road - 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: 0049-69-7165-3568 Fax: 0049-69-7165-3830 - E-mail: dymaxinfo@dymax.de - www.dymax.de



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