

UV-CAST™ Keypad Coatings

DYMAX UV-CAST™ keypad coatings maximize design flexibility while performing to stringent interface requirements. The UV-CAST molding process enables instant fabrication of various keypad contours, shapes, and textures. Setup costs are minimal compared to similar performing keypads that require injection molds.



BENEFITS of UV-CAST KEYPADS vs. OTHER SYSTEMS

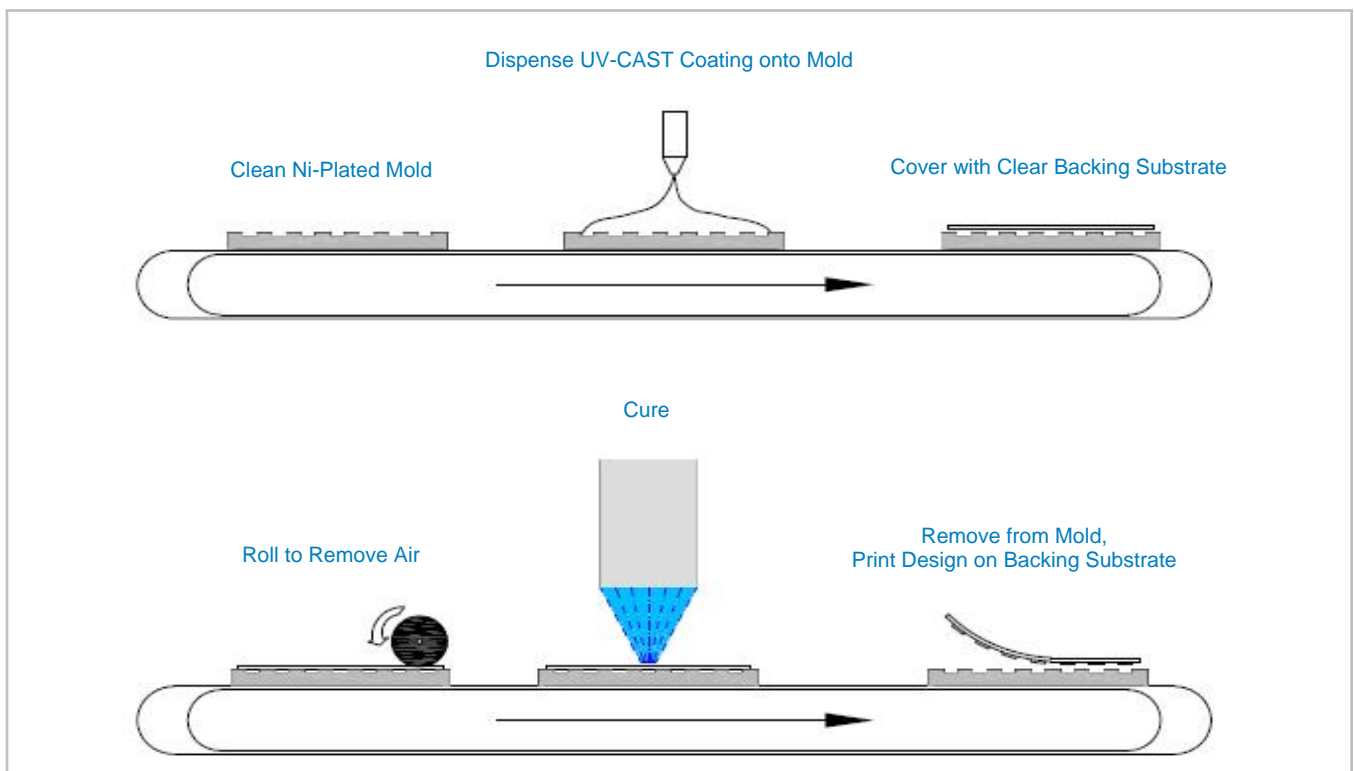
- Eliminates high costs of injection molding tooling and energy use
- Fast prototyping
- Minimal design change cost
- Wide range of coloring options
- Enables any image design to be placed on back of keypad
- Supports ultra-thin device form factors
- Facilitates 3-D designs for contoured profiles and enhanced tactile response
- Ease of visual inspection

TYPICAL APPLICATIONS

- Mobile phones, PDAs
- Laptop computers
- Automotive controls
- Digital music players
- GPS (global positioning systems)

UV-CAST PERFORMANCE FEATURES

- Easy application
- Ultra-fast cure in seconds
- High clarity
- Long-term, high resistance to sunlight, lotions, chemicals, abrasion, and scratching
- Silicone free





ENVIRONMENTAL BENEFITS of UV-CAST™

- No VOCs
- Solvent free
- Halogen-free
- HAP-free
- Minimal energy use in molding and curing
- RoHS compliant

TYPICAL COST SAVINGS of UV-CAST MATERIALS:

- Reduced energy use
- Improved productivity from high throughput of rapid curing
- Reduced floor space
- Capital and maintenance costs of injection molding equipment, solvent management, and mixing eliminated
- Avoid cost of silicone containment

PRODUCT SPECIFICATIONS

Product	9662	9663
Typical Applications	Keypad Forming	Keypad Forming
Features	High viscosity for thick keypad profiles	Low viscosity for bubble-free dispensing, low outgassing
Recommended Thickness, mm [in]	0.10 – 0.25 [0.004-0.010]	0.10 – 0.25 [0.004-0.010]
Viscosity, cP	1,600	600
Durometer Hardness	D80	D80
Pencil Hardness	HB	HB
Cured Color	Clear	Clear
Recommended Backing Substrates	PC, Treated PET	PC, Treated PET
Recommended Mold Material	Nickel Plated	Nickel Plated
Product Cure Data*		
Lamp	Lamp Intensity	Approximate Exposure or Belt Speed
5000-EC Flood Lamp System	200 mW/cm ²	< 3 sec
UVCS Conveyor with 5000-EC	200 mW/cm ²	4.8 m/min [16 fpm]
UVCS Conveyor with Fusion D Lamps	2700 mW/cm ²	6.1 m/min [20 fpm]

* Cure times based on laboratory conditions.



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 - Kasteler Strasse 45 - Building G 359 - 65203 Wiesbaden, Germany - Phone: +49 (0) 611.962.7900 - Fax: +49 (0) 611.962.9440 - E-mail: info_de@dymax.com - www.dymax.de

DYMAX UV Adhesives & Equipment (Shenzhen) Co., Ltd - Unit 807, Talfook Building, No. 9 Shihua 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

© 2010 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. Lit280 4/26/2010