

Dymax Keypad Coatings

Dymax light-curable keypad coatings maximize design flexibility while performing to stringent interface requirements. The 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 DYMAX KEYPADS vs. OTHER SYSTEMS

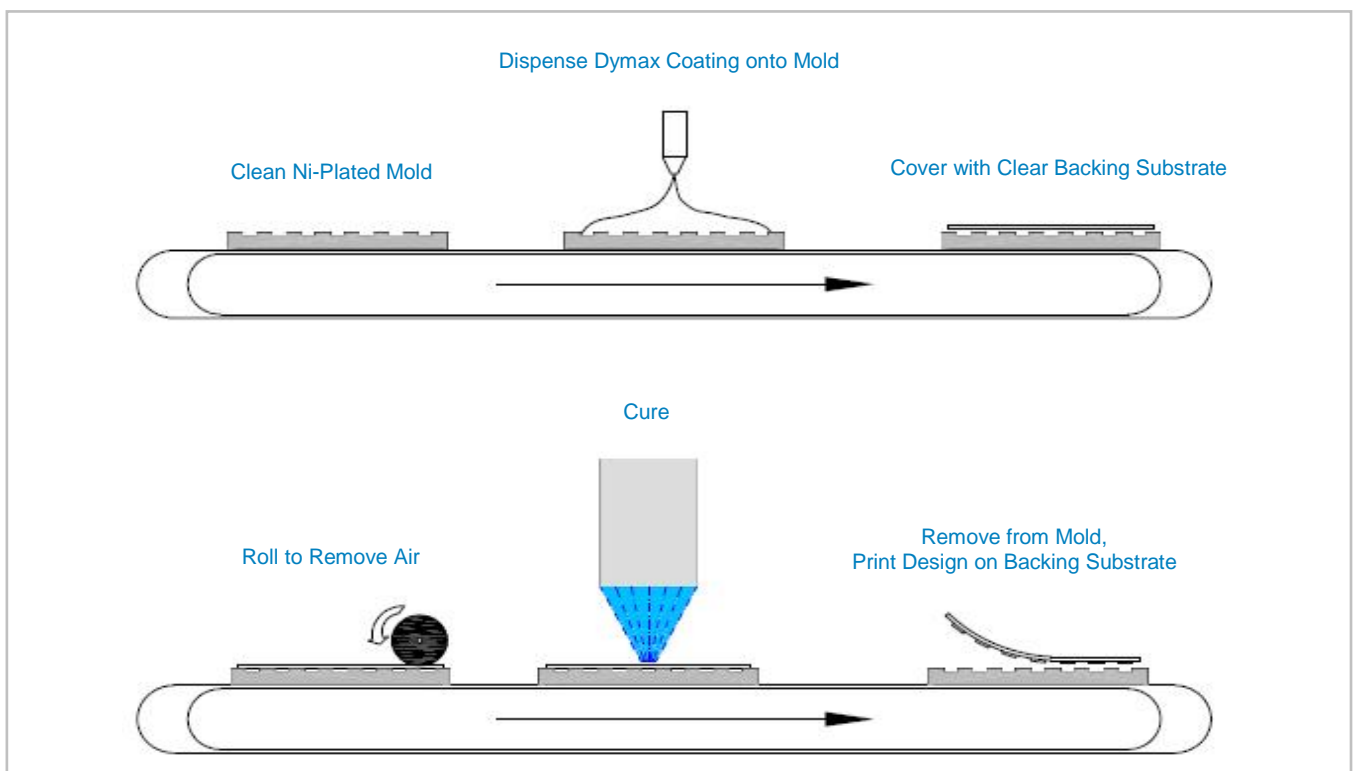
- Eliminates high costs of injection molding tooling and energy use
- Fast prototyping
- Minimal design change cost
- Wide range of coloring options
- Enables any image design to be placed on back of keypad
- Supports ultra-thin device form factors
- Facilitates 3-D designs for contoured profiles and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

TYPICAL APPLICATIONS

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

DYMAX 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 DYMAX COATINGS

- Low VOCs
- Solvent free
- Halogen-free
- HAP-free
- Minimal energy use in molding and curing
- RoHS compliant

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

* Cure times based on laboratory conditions.



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Dymax Corporation
+1.860.482.1010 | info@dymax.com | www.dymax.com

Dymax Europe GmbH
+49 (0) 611.962.7900 | info_de@dymax.com | www.dymax.de

Dymax Engineering Adhesives Ireland Ltd.
+353 21.237.3016 | info_ie@dymax.com | www.dymax.ie

Dymax Oligomers & Coatings
+1.860.626.7006 | info_oc@dymax.com | www.dymax-oc.com

Dymax UV Adhesives & Equipment (Shanghai) Co. Ltd.
+86.21.37285759 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax UV Adhesives & Equipment (Shenzhen) Co. Ltd.
+86.755.83485759 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Asia (H.K.) Limited
+852.2460.7038 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Asia Pacific Pte. Ltd.
+65.6752.2887 | info_ap@dymax.com | www.dymax-ap.com

Dymax Korea LLC
+82.2.784.3434 | info_kr@dymax.com | www.dymax.com/kr