

domed urocals



*clearly different*  
**versatile & durable**



**URETHANE POURED UROCALS...  
A LOOK BEYOND COMPARE.**

This exciting concept in name identification puts the industry's most unique production process at your disposal.

Give us virtually any screen printable design. Specify any combination of colors. If you want, include embossed foils for extra stand-out depth. Then, when we've completed the screen printing process, we contain the entire design in a crystal-clear lens of poured polyurethane.

The result? You get the feel of a slick, contoured surface that won't scar or scuff... and looks like a liquid jewel!



  
**DOUGLAS**  
CORPORATION

[www.douglascorp.com](http://www.douglascorp.com)

## domed urocals



### BENEFITS:

- Urethane poured parts have a smooth, glossy, high profile appearance with exceptional depth.
- Extremely durable—Urocals will withstand scratches and impact dents and return to original form within a short time.
- Ideal for exterior and interior applications.
- Provides UV stabilization for fade-free screen printed inks.
- Cost-effective process that provides a nameplate with dimension.
- Cosmetically enhances any company or product logo.
- Can be poured to follow irregular shapes in addition to circular and rectangular shapes.

### TECHNICAL SPECIFICATIONS:

- **Base Material:** .002" chrome polyester, gold polyester, brushed chrome polyester, white polyester.
- **Adhesive:** .005" permanent acrylic adhesive.
- **Decorating:** Unlimited screen print color availability on the first surface with a poured pool of polyurethane doming material over the printed ink.
- **Minimum Size:** .50" x .75" standard.
- **Maximum Size:** 24" x 36" standard.
- **Minimum Stroke Width:** .375".
- **Embossing:** Design specific.
- **Minimum Corner Radius:** .060".
- **Application Temperature:** Must be 70° F or above.
- **Temperature Range:** -20° to 185° F.
- **Application Uses:** Electronics, automotive, RV, industrial and commercial equipment, appliance, marine, recreational products.

### LENS MATERIAL:

- Clear polyurethane (2 component).
- **Hardness:** Shore D 45 ± 5 (similar to a pencil eraser).
- **Clarity:** 25% more clear than plate glass.
- Non-yellowing in 48 month South Florida exposure.
- **Cure Time Before Packaging:** 72 hours.
- **Lens Thickness:** .05" to .07" thick.

### ENVIRONMENTAL TESTING RESULTS:

- **Hardness:** Shore D45.
- **Tabor Abrasion CS-10 Wheel 1,000 gr. wt.:** 1,000 cycles with no blemish.
- **Tensile at Break:** 3300 PSI.
- **Elongation at Break:** 200%.
- **Solvent Resistance:** Ethanol—24 hours, good.
- **H2S04:** 1%—24 hours, excellent.
- **Sodium Hydroxide:** 28%—24 hours, excellent resistance.
- **Humidity:** 100% RH at 120° F—1,008 hours, no change.
- **Water Immersion:** 100° F—1,008 hours, no change.
- **Salt Spray:** 1,008 hours, no change.
- **Xenon Arc Weatherometer (Accelerated Outdoor Weathering):** 4,000 hours, no change.
- **Florida Exposure:** 24 months—no change.
- **Temperature:** 20° F to 185° F—24 hours, no change.

**ISO 14001:2004 AND  
ISO/TS 16949:2002  
CERTIFIED**



**DOUGLAS**  
CORPORATION

9650 valley view road • eden prairie, mn 55344-3507  
(952) 941-2944 • fax: (952) 942-3125  
e-mail: sales@douglascorp.com • www.douglascorp.com