



## Technical Data Sheet

### POLYMARK P584-1

#### POLYURETHANE DOMING SYSTEM

**Features:**

- Fast Curing at 25°C
- Mercury-free
- Low Moisture Sensitivity
- Outdoor Weathering Resistant
- Automotive Grade\*

**Product Description:**

Polymark P584-1 is a two component, room temperature curing polyurethane doming system. It is designed for covering of emblems and decals to produce an attractive 3-D product. Cured P584-1 is a tough, transparent elastomer with high gloss.

It is non-abrasive to dispensing equipment and well suited to automated operations. P584-1 is a DOT non-hazardous material and conforms to RoHS and REACH restrictions. P584-1 has much lower user sensitivity compared to other polyurethanes on the market today.

**Typical Product Handling Properties:**

| <u>CHARACTERISTIC</u>                    | <u>VALUE</u>  |
|--|---------------|
| <b>RESIN:</b>                            |               |
| Color                                    | CLEAR         |
| Viscosity-Centipoise, 25°C               | 300 cps.      |
| <b>HARDENER:</b>                         |               |
| Color                                    | CLEAR         |
| Viscosity-Centipoise, 25°C               | 2000 cps.     |
| <b>MIXING RATIO (Resin to Hardener):</b> |               |
| by weight                                | 93 to 100     |
| by volume                                | 1 to 1        |
| Gel Time, 25°C                           | 15-20 minutes |
| Tack-free Time                           | <4 hours      |
| Time to Full Cure, 25°C                  | 24-48 hours   |

**Typical Cured Physical Properties**

| <u>CHARATERISTIC</u>     | <u>VALUE</u>      |
|--------------------------|-------------------|
| Cured Density (g/cc)     | 1.10              |
| Cured Hardness (Shore D) | D15-20            |
| Cured Appearance         | Clear, High Gloss |

Polymark P584-1 can be proportioned by weight or volume. These ratios are stoichiometrically calculated and should be closely followed. Automated meter-mix dispensing equipment may be used for high volume production. Moderate heating will shorten the curing time.

P584-1 Resin and Hardener are hydroscopic and must be kept away from atmospheric moisture during storage. After opening a sealed container, thoroughly purge the remaining air space with dry nitrogen (or equivalent inert gas) before closing the container.

**Handling Safeguards:**

Closely follow instructions on the labels of Polymark materials containing information on the hazards associated with each particular product. Most polyurethane resin systems are skin and eye irritants and can cause respiratory sensitization. Other problems, such as skin sensitization and more serious health hazards may exist. Consult the Material Safety Data Sheet for further information.

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\*Tested according to SAEJ2527 at Q-lab independent laboratory.

**Important Notice to Users:** Typical properties are shown in this technical bulletin and should not be used or taken as specifications. Contact Polymark prior to establishing specifications. The information given for product description, handling properties and cured physical properties are offered solely to assist the purchaser's own testing. Polymark, its sales agents and distributors make NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. This product and all information supplied in connection with it is used at the purchaser's own risk, conditions of use being beyond Polymark's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.