

P585-45

CLEAR POLYURETHANE DOMING SYSTEM

Features:

- Made in the USA
- Flexible and Tough
- Fast Curing
- Mercury-Free

Standards:

- REACH Compliant
- RoHS Compliant
- Prop 65 non-hazardous
- Automotive Grade¹

1. Independently tested in accordance with SAE J2527 by Q-lab Corporation, q-lab.com.

Product Description:

Polymark P585-45 is a two component, room-temperature curing, polyurethane doming resin. It is designed for the covering of emblems and decals to produce an attractive 3-D product. Cured P585-45 is a tough, transparent, colorless elastomer with high gloss.

Processing:

For best results, the mixed material should be degassed in a vacuum chamber to remove bubbles produced from stirring. Automated meter-mix-dispensing machines eliminate this issue.

Polymark doming resins will cure completely at ambient, 25°C conditions. For large production volumes, mild heating will significantly accelerate the curing. Short duration heating at temperatures of 40-60°C have been found to be beneficial.

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.

Typical Product Handling Properties:

Mixing Ratio (Resin to Hardener):	
by weight	98 to 100
by volume	1 to 1
Mixed Viscosity, 25°C	500-800 cps
Gel-time, 25°C, 0.060"	20-30 minutes
Time to Full Cure, 25°C	24-48 hours

Typical Cured Physical Properties

Cured Density (g/cc)	1.05
Cured Hardness (Shore D)	D45
Cured Appearance	Clear, High Gloss

Handling and Storage:

Polymark P585-45 can be proportioned by weight or volume. These ratios are stoichiometrically calculated and should be closely followed.

P585-45 Resin and Hardener are hygroscopic and moisture sensitive. They 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. Desiccant dryer cartridges are also a good choice.

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 Safety Data Sheet for further information.

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