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# Data Sheet Z-8002 Polyurethane Compound

Product Name: Z-8002

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### Description

Z-8002 is a mercury free clear two-part polyurethane compound for use on decals, labels, emblems and other decorated substrates to create a domed lens effect. The cured product is a flexible plastic of 80+/- 3 Shore A or 33+/- 3 Shore D hardness. The Part A to B ratio is 55 to 100. The outdoor weathering is excellent.

### Hazards

Part A is manufactured for commercial use only (see MSDS). Part B contains aliphatic diisocyanate and polymeric isocyanates. See MSDS for safe handling instructions.

### Storage

Both Part A and Part B are sensitive to moisture and containers must be kept closed during storage. Storage temperature can be ambient, however the material should be warmed to 90-110°F before using.

## Component Z-8002 Part A

### Typical Liquid Properties

Appearance: Clear liquid with a slight yellow tint.  
Specific Gravity: 1.07 @ 25°C  
Weight per gallon: 8.91 @ 25°C  
Brookfield Viscosity: 300-500 Cps @38°C #2 Spindle RVT @20 RPM  
Hydroxyl Value: 315 - 330  
Acid Value: less than 0.75  
Water Content: less than 0.1%

## Component Z-8002 M1 Part B

### Typical Liquid Properties

Appearance: Clear liquid  
Specific Gravity: 1.08@ 25°C.  
Weight per gallon: 9.00 @ 25°C.  
Brookfield Viscosity: 300-500 Cps. RVT #2 Spindle, 20 RPM, @ 38°C  
NCO Value: 13.5 - 14.5%

### Mixing Information

**Ratio by Weight** Part A 55  
Part B 100

**Ratio by Volume** Part A 55  
Part B 100

### Curing

**Gel Time** 4-6 minutes, 100 grams @38°C

### Typical Cured Physical Properties

**Hardness** @ 25°C Initial 80+/-3 Shore A 33+/-3 Shore D

*All information, recommendations and suggestions contained herein are to the best of our knowledge true and accurate, but are made without guarantee. No warranty of fitness for a particular purpose is made. Nothing herein shall be construed to allow infringement of any patent.*

**Heat aging** 7 days @ 85°C, no change.  
**Weathering** Accelerated weathering RS-4 sunlamp 100 hours with water spray- no change.  
**Humidity Resistance** 7 days 100% RH @ 25°C -no change.

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