



GPI

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Product Specification Sheet

AcuDome

AcuDOME is an optically clear polyurethane compound that exhibits ultraviolet resistance.

This material is a non-TDI, non-MDA, and non-MBOCA polyurethane.

Resin Properties (Part A)

Viscosity @ 25°C1500 cps
Specific Gravity.....1.06
Colour.....Water White

Hardener Properties (Part B)

Viscosity @ 25°C550 cps
Specific Gravity.....1.04
Colour.....Water White

Mixed Properties

Mix Ratio by weight, Resin/Hardener.....100/55
Mix Ratio by volume, Resin/Hardener.....1.00/0.56
Initial Mixed Viscosity @ 25°C.....1600 cps
Work Life @ 25°C.....5-10 minutes
Full Cure @ 25°C.....12-48 hours (dependant on mass)

Typical Cured Properties

Hardness, Shore D.....55
Tensile Strength, psi.....>2500
Elongation (%).....>100
Tear Strength, pli.....>400

UV Testing

A cured sample sheet of AcuDOME was tested in a QUV weatherometer using lamps with a peak emission of 340 nm. Samples were subject to 8 hours of UV exposure at 60°C, and then 4 hours of 95% humidity at 50°C, in a continuous cycle. Termination of the test would result if the sample demonstrated excessive yellowing or other degradation. AcuDOME exceeded 3000 hours of testing under these conditions.

Izod Impact Test (ASTM D-256)

Material cured 7 days at 25°C.

Method A: 7.05 ft. lb./in.

Method B: 12.10 ft. lb./in.

90°C Peel Test

Material cured 7 days at 25°C

A) Aluminum, hand abraded 11.23 pli.

B) Aluminum, hand abraded and primed (Chemglaze 9947) 41.10 pli.

C) Cold rolled steel, sand blasted 15.80 pli.

D) Cold rolled steel, sand blasted and primed 43.30 pli.

Humidity Testing

Material cured 7 days at 25°C.

Material subjected to 100°C with 100% relative humidity.

AcuDOME exhibited a decrease in hardness and an increase in flexibility, but no visible degradation.

24 Hour Solvent Testing

Material cured 7 days at 25°C.

Values given are the average of five samples.

20% Saltwater testing:

Weight change: 0.47%

Length change: 0.08%

AcuDOME remained clear and colourless.

Unleaded Automotive Gasoline:

Weight change: 22.11%

Length change: 8.78%

AcuDOME remained clear, but exhibited some yellowing.

**THE ABOVE DATA WAS GENERATED ON LABORATORY PREPARED
MATERIAL AND SHOULD NOT BE USED FOR SPECIFICATION
PURPOSES.**

The information presented here is based on carefully conducted laboratory tests and is believed to be accurate. However, results cannot be Guaranteed and it is suggested that customers confirm results in their own laboratory before plant tests are made. Nothing contained in this bulletin shall be construed as a recommendation to use any product or process in violation of the claims of any patent now in effect.