

Doming Specifications

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Polyurethane Dome Cured Physical Properties

Initial: Clear, semi flexible, excellent clarity and gloss.

Accelerated Aging, RS-4 Sunlighter with Water Spray: After 500 hours exposure in an ultra-violet light and water spray apparatus, (estimated 3-5 years outdoor weathering) specimens show no significant surface deterioration, increase in hardness, shrinkage or noticeable color or gloss change.

Outdoor Weathering: Samples show no appreciable discoloration or loss of gloss after 5 years outside. Samples will tolerate temperatures between 45° F and 170° F.

Oven Aging: Specimens show no surface deterioration, shrinkage or increase in hardness after seven days in a hot air circulation oven at 170° F.

Humidity: Specimens show no color or gloss change or objectionable shrinkage after seven days in a humidity cabinet with a condensing atmosphere at 100° F., 100% R.H..

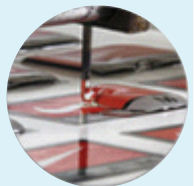
Salt Spray: Specimens show no change or promotion of corrosion to the surface which they are mounted after 22 hrs. exposure to a salt spray test.

Abrasion and Impact Resistance: Samples resist abrasion and impact down to -20° F.. Forced indentations recover completely due to resilient nature of the polyurethane polymer.

Cleanability: Samples clean easily without marring using a detergent solution, aliphatic hydrocarbon or denatured alcohol.

Solvent Resistance: Samples show no discoloration after being immersed in unleaded gasoline ten times for ten seconds with a drying time of twenty seconds between immersions.

Chemical Resistance: Samples show no significant color change or swelling after five minutes of exposure to the following chemical solutions: 5% KOH, 5% NaCl, 5% KCl, 20% H₂SO₄, 20% HCl.



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