



Abrasion Resistant - Acrylic

Polycast



LUCITE SAR II

Lucite SAR II combines the physical characteristics of cast acrylic sheet with an abrasion resistant, cleanable surface.

Lucite SAR II gets its super hard, glass-like surface from a coating of cross-linked polysilicate resin. In addition to outstanding abrasion resistance, **Lucite SAR II** offers enhanced chemical resistance from standard acrylic sheet. **Lucite SAR II** has limited formability, information on forming techniques is available upon request

Typical Applications Include:

- Architectural glazing
- Display cases
- Security glazing, including Bank Teller Stations, Drive-Up Windows, and Self-Serve Booth windows
- Sports and Recreation glazing including Basketball Backboards, Racketball Backwalls and Zoo Glazing
- Vehicle glazing including vehicle sunroofs
- Equipment faces and covers

Lucite SAR II is available:

Sheet: .125 - .250 (standard) .060 -1.250 (custom) thick

Size: 48" x 96" to 72" x 108" (standard range)

Colors: **Contact your local branch**, All Lucite SAR II colors are custom products. Clear is standard.

| Typical Physical Properties | Test Method | Lucite SAR II | Acrylic Sheet | Plate Glass |
|--------------------------------------------------------------------|-----------------|---------------|---------------|-------------|
| Optical | | | | |
| Luminous Transmittance (%) | ASTM D1003 | 93 | 92 | 89 |
| Haze (%) | ASTM D1003 | 0.5 | 0.6 | 0.9 |
| Index of Refraction No23°C | ASTM D542 | 1.43 | 1.49 | 1.5 |
| Abrasion Resistance (Reported as percent increase in percent haze) | | | | |
| Steel Wool Rotary Test | | | | |
| 12 psi | | 0.0 | 25 | 0 |
| 24psi | | 0.1 | 31 | 0 |
| Taber Abrasion Test | ASTM D1044 | 0.44 | 14 | 0 |
| 500g. each wheel, 100rev | ANSI Z26.1-1983 | | | |
| 500g. each wheel, 100rev | | 7.6 | - | 0.7 |
| Mar Resistance Test, 100g. SiC | ASTM D673 | 2..3 | 29 | 3.3 |
| Impact Resistance (all data refer to 0.025 in thickness) | | | | |
| Notched Izod, ft.lb./in. | ASTM D256 | 0.3 | 0.3 | 0.1 |
| Falling Steel Ball, 0.5 lb breakage drop height (ft) | | 18 | 18 | 2.5 |

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