

UV Stabilized Resins for Indoor Applications:**NAS 36** - Clear UV-Stabilized Acrylic Copolymer**ZYLAR 533** - Clear, Impact Modified, UV-Stabilized Acrylic Copolymer

NAS 36 and ZYLAR 533 have been tested for resistance to indoor light exposure according to the conditions of ASTM D4459-99. Testing was performed in accordance with Method G155-00a (Table X3.2, Cycle #4) on an Atlas Ci65A Weather-O-Meter at a Xenon Irradiance of 0.30 W/m² and a Black Panel temperature of 55 °C. These are typical conditions for exposure of plastics to indoor light conditions common to offices and stores. Typically these environments are lit for extended periods. The test applies when a portion of the light is from sunlight through window glass.

Color changes (Delta E) of molded plaques (0.10 inch thick) were measured after different exposure times. Color was measured in reflectance mode with a white tile background. A color change of Delta E less than one unit is generally not perceptible to the human eye. A typical criteria for a color stable product is Delta E less than 3 after 300 hours of exposure to the conditions listed above.

Test results are shown for color stability of molded plaques of NAS 30, NAS 36 and ZYLAR 533. Results for typical UV-stabilized polycarbonate and acrylic materials are also included.

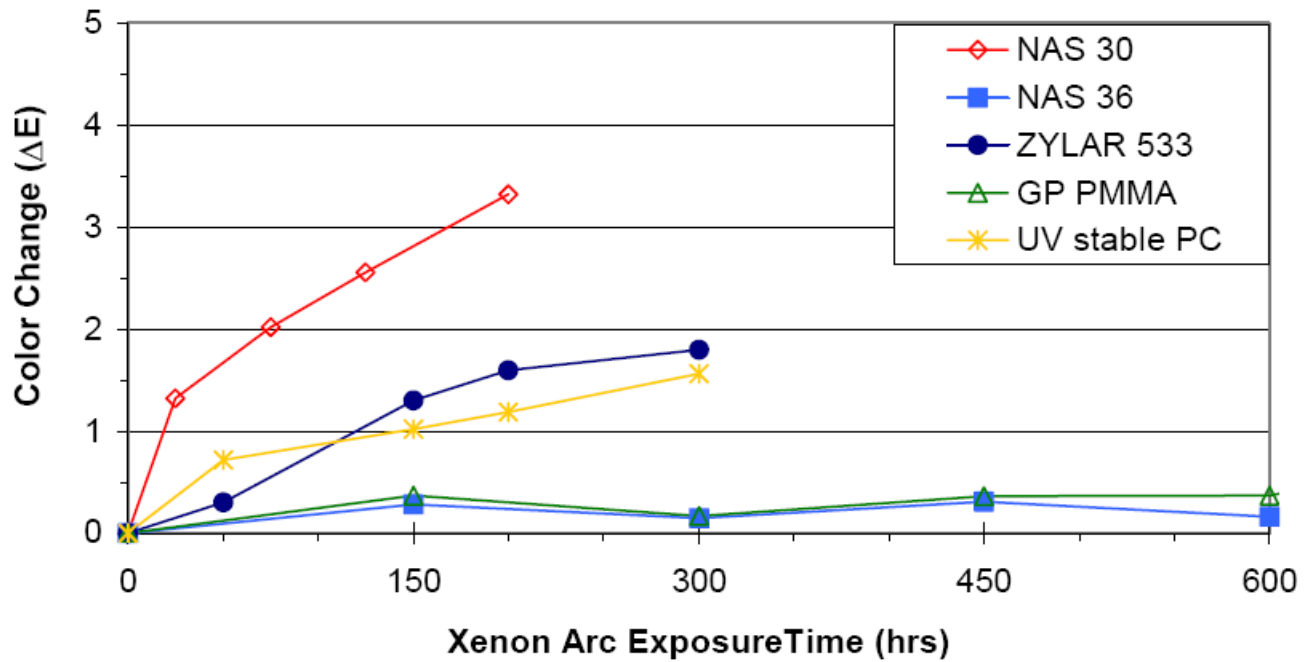
These results indicate NAS 36 is very well-suited for indoor applications. It retains its water-white color and sparkling clarity for extended periods of time under most indoor lighting environments. NAS 36 has better color stability than many stabilized polycarbonates. ZYLAR 533 has color stability similar to stabilized polycarbonates. ZYLAR 533 is suited to many indoor applications where transparency, practical toughness and color stability are required.

These results indicate the utility of NAS 36 and ZYLAR 533 for clear or tinted applications such as point-of-purchase displays, lighting louvers, business machine housings or accents, appliances, toys, housewares, furniture, kitchen faucets and other clear applications.

NAS 36 and ZYLAR 533 are also available pre-colored for your specific needs. UV light stability of pre-colored resins may not be the same as for clear resins. Color stability depends on many factors, so actual performance will depend on ambient lighting conditions, length of time exposed per day, proximity of material to light sources and windows, choice of color pigments and other factors.

Indoor UV Stability of NAS and ZYLAR Acrylic Copolymers

ASTM D-4459 (G155, Cycle #4)



Notes

† Actual duration and degree of color stability may depend on ambient conditions, length of time exposed per day, proximity of material to light sources and windows, color pigments added, and other factors.