

PLEXIGLAS® SHEET: Weathering

ACRYLIC SHEET

WEATHERABILITY OF PLEXIGLAS SHEET

Plexiglas G (including UF-3 and P95), Plexiglas MC (including UF-5) and Plexiglas Impact Family acrylic sheet products have a proven ability to withstand the effects of weather, sun, and a wide range of temperatures in outdoor use. This permanence derives from the acrylic resin's inherent stability. A large number of clear samples, after more than 10 years' outdoor exposure in Pennsylvania, show an average of more than 90% light transmission, which represents a loss of only 2%. Inspection reveals that very few test samples exhibit any obvious damage due to weathering.

In other tests, samples of colorless Plexiglas G sheet exposed outdoors in Arizona, Florida, and Pennsylvania for 20 years or more show no significant discoloration, crazing, surface dulling, loss of light transmission, or development of haze or turbidity. Although these samples were Plexiglas G sheet, ongoing weathering studies have shown Plexiglas MC sheet to behave in a similar manner.

In these tests the samples were mounted on outdoor racks at a 45-degree angle facing south. Angling the racks in this manner increases the rigors of exposure significantly. Actual outdoor applications ordinarily involve less severe conditions.

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