

UV Test Parameters | Rowmark Acrylic Sheet

All Rowmark materials marketed as UV stable and/or outdoor weatherable have passed the testing methodology outlined below:

Standard Cycle: 72 Wm2 @420nm/35oC

Step 1: Light only

Step 2: Light + Spray

Filter: Daylight

Bulbs: X-1800 Xenon Arc Lamp - 1800W

The testing begins and alternates 'Steps' (defines in cycle above) each hour for one 'cycle' of 100 hours.

- At the end of each cycle, the samples are evaluated
- Three cycles are performed for a total of **300 hours per test**.
- Samples are evaluated and data is collected between each cycle and at the end of the 300 hours.

UV (Ultraviolet) Stability:

The ability of the engraving material to maintain its colorfastness in UV conditions for a limited period of time. This is separate from physical weathering. Although colorfastness is a desirable condition, no man-made product will remain colorfast in an exterior environment indefinitely. Rowmark uses UV-stable plastic resins and films in many of its products to prolong the useful life of the material when used in reasonable exterior conditions. Most Rowmark products are warranted for colorfastness for at least two years, but have been known to last much longer in reasonable conditions. The following exceptions apply - five years for ADA Alternative Substrate & Appliqué, Textures, Lacquers, Slickers, Ultra-Mattes Front & Reverse materials, when properly mounted vertically in exterior conditions. For signage, the use of an overcoat, overprint or protective acrylic clear sheet will increase the durability of outdoor weatherable, UV-stable Rowmark sheet products. Sheltered environments also add significantly to the useful life.

Outdoor Weatherable:

Often confused with UV stability, outdoor weatherability is **the ability of plastic engraving material to withstand exterior weathering conditions**. Rowmark products designated as "outdoor weatherable" are designed to withstand average conditions and temperatures for up to two years. The following exceptions apply - five years for ADA Alternative Substrate & Appliqué, Textures, Lacquers, Slickers, and Ultra-Matte Front and Reverse materials without significant degradation. Although no specific life can be designated to any product, Rowmark recognizes that under reasonable/normal weather conditions the material will not break down physically. Materials may become brittle and some discoloration or fading will occur when used in harsher environments or exposed for extended periods of time.



UV radiation



UV Stability



Weather Conditions



Outdoor Weatherable

Terms and Conditions

Johnson Plastics Plus's warranty on Rowmark acrylic sheet is limited to replacement of product only, and such warranty does not extend to the costs of any repeat labor or incidental costs.

LIMITED WARRANTY, WARRANTY DISCLAIMERS AND LIMITATIONS OF REMEDIES AND LIABILITIES: Except as set forth above, Seller makes NO OTHER WARRANTIES concerning the products whatsoever. SELLER DISCLAIMS AND EXCLUDES ALL OTHER EXPRESS WARRANTIES AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE concerning the products. In no event will Seller's liability exceed the paid purchase price of the products. Seller's obligations described in this paragraph shall be Buyer's sole and exclusive remedy against Seller and Seller's Distributors for any liability with respect to the products whether any claim for recovery is based upon or arises out of theories of contract, negligence, tort (including strict liability) or otherwise. Buyer agrees that NO OTHER REMEDY SHALL BE AVAILABLE to Buyer and that IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, including without limitation loss of income, loss of time, loss of sales, cost of replacement items, or claims asserted by Buyer's customers. A suit based on any cause of action must be commenced within one year from the date of delivery of product.