

The Clear Choice Is Crystal

"A clear leader in the industry!"

15-Point Quality Vinyl Assurance Program

Raw Materials Test

Key raw materials are tested, such as the PVC, T102, and Impact Modifiers to ensure they meet strict specifications.

Compounding Test

State of the art analytics are used to compare the compounded formula for blending uniformity and consistency.

Processing Tolerance Test

The vinyl extrusions undergo inline testing continuously during production. This includes size, surface quality, and mating to other accessory parts for adherence to the QC drawing tolerances.

Color Test

Each extruded color is measured with an electronic colorometer to verify each color matches the master guidelines. This assures great color consistency from batch to batch. The gloss is also tested at this time.

Accelerated Weathering Test

The vinyl extrusions are constantly being tested on a UV radiation machine. This machine exposes them to intense UV and humidity, simulating harsh outdoor environments. Simulated results are achieved that would take years under natural exposure.

Real World Weatherability Test – AAMA

They are exposed to external weather for a minimum of 2 years and confirm the vinyl's performance for color retention, and impact resistance. These test sites are located in Arizona, Ohio, and Florida to simulate a variety of climates.

Heat Resistance Test – AAMA

They are exposed to extreme heat. Then they are inspected for changes in the surface, size, and shape.

Dimensional Stability Test – AAMA

Again, they are exposed to elevated temperatures and measure the lineal shrinkage and stability.

Impact Resistance Test – AAMA

They are measured for resistance to cracking during fabrication or other foreign impacts.

Tensile Strength Test – AAMA

Measures the force required to pull the vinyl apart.

Weight Tolerance Test – AAMA

Confirms that the finished vinyl extrusion conforms to the standards outlined in the original specification for Profile Weight.

Weld Strength Test

The force required to break the corner after welded is measured. This force is greater than the strength of the vinyl extrusion; this means the profile will break before the weld will give way.

Heat Absorption Test

They are further exposed to infrared radiation to determine the amount of radiant heat it can absorb and still remain stable.

Profile Deflection Test

Measures the temperature that a specific vinyl extrusion will bend when loaded under a specific weight.

Desert Exposure Test

The vinyl extrusions are tested at a test site in the desert of Utah allowing to test more than 10 times the product required by AAMA guidelines.