



VUEGUARD 931® AF

Vueguard 931® AF has been designed for use on polycarbonate substrates to provide resistance to fogging. Although designed for polycarbonate, other material such as Valox™⁽¹⁾, CR-39⁽²⁾™ may benefit from being coated with Vueguard 931® AF.

Environmental Exposure

	Unexposed	Humidity (1)	Water Immersion (2)
Light Transmittance (%) (3)	90	90	90
Haze (%) (4)	<3	<3	<3
Adhesion (%) (5)	100	100	100
Appearance (6)	Excellent	Excellent	Excellent

- Humidity: 120 hours @ 52°C and 100% RH (ASTM D-2247)
- Water Immersion: 15 hours @ 23 °C.
- Light Transmittance: ASTM D-1003
- Haze: ASTM D-1003
- Adhesion: ASTM D-3359
- Appearance: Visual inspection of lifting, blistering, or spotting of the coating

Fogging Tests

Hot Fog (7) — Time to Fog	1 hour
Cold Fog (8) — Time to Fog	> 48 hours

- Hot Fog: Test film placed over beaker of water at 60 °C
- Cold Fog: Test film placed in freezer @ 4 °C

Scratch Test

Scratch Resistance (psi) (9)	1
------------------------------	---

- Scratch Resistance: While not designed to be scratch and abrasion resistant, Vueguard 931 shows no scratching when subjected to steel-wool rotary testing using a 1.25-square-inch #0000 steel wool pad at 1 psi for 5 revolutions.

Boiling Test ⁽¹⁰⁾

Crosshatch Adhesion (11)	100%
--------------------------	------

- Panels immersed in boiling water for 2 hours.
- ASTM D-3359

1 Registered Trademark of General Electric Corporation.

2 Registered Trademark of PPG.

PCI assumes no obligation or liability for any information furnished by it or results obtained with respect to these products. All such advice is given and accepted at the buyer's risk. Users should be governed by their own tests, made under conditions representative of those to which the product will be subjected in actual service. Users assume all risks and responsibilities associated with the proper handling, use and disposal of the material.

