

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 ValoxTM(1), CR-39(2)TM may benefit from being coated with Vueguard 931° AF.

- 1 Registered Trademark of General Electric Corporation.
- 2 Registered Trademark of PPG.

Environmental Exposure

Unexposed	Humidity (1)	Water Immersion (2)
90	90	90
<3	<3	<3
100	100	100
Excellent	Excellent	Excellent
	90 <3 100	90 90 <3 <3 100 100

1. 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

6. 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

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

Scratch Test

Scratch Resistance (psi) (9)	1
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 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%
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- 10. Panels immersed in boiling water for 2 hours.
- 11. ASTM D-3359

