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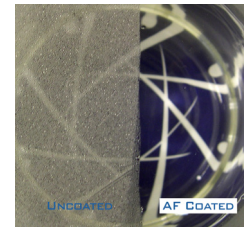
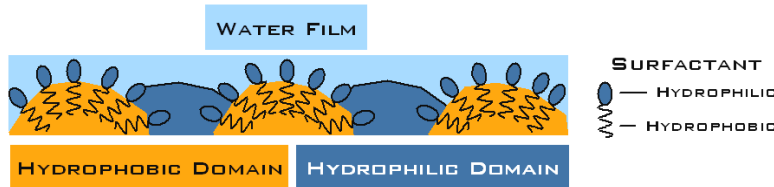
FOGuard® PET - Optical Grade Anti-Fog PET Film

Anti-Fog (AF) PET Film Product Features

- **Outstanding Long-Lasting AF Performance** – Pass EN 168 for Mist Retardant Anti-Fog coatings.
- **Excellent Water Resistance, Superior Durability** – The coating will retain effective Anti-Fog properties after repeated cleaning with water and normal commercial glass and lens cleaners.
- **Excellent Scratch Resistance, Hardness, and Impact resistance** – Scratch resistance better than most plastic substrates such as PC, TAC, PET. This coating provides reasonable mar protection to substrates without hard coat.
- **Excellent Mechanical Integrity in Wet State** – Scratch resistance in wet state outperforms most AF coatings available in the market. Coating will not swell and cause failures under very humid conditions and relatively high temperatures.
- **Easy to Clean** – No dust tenaciousness, and easily cleaned under running water.
- **Excellent Formability and Good Chemical Resistance**
- **Excellent Coating Appearance** – Improves the transmission of the PET substrate. No haze, blushing, and other optical defects.

Also Available: Anti-Fog TAC Film (FOGuard® TAC)

ISTN ANTI-FOG COATING DESIGN CONCEPT ILLUSTRATION



Anti-Fog (AF) PET Film Product Specifications		
Specifications	Before Water Immersion	After Water Immersion ¹
Anti-Fog Test - Hot Water ²	No Fogging	No Fogging or Clears in 1~2 Seconds (Instant Fogging)
Anti-Fog Test – Freezing/Room Temperature ³	No Fogging	Clears <5 Seconds (Instant Fogging)
Adhesion (ASTM D3359)	100/100 (5B)	100/100 (5B)
Folding Test (180 folding)	No Delamination	No Delamination
Abrasion Test ⁴	Pass	Pass
Hardness (ASTM D3363-92a)	> B	> B
Haze	< 0.5%	< 0.5%
Transmittance Improvement	< 1%	< 1%
Product shelf Life	> 3 year	> 1 year

1. Place samples in the tap water for 1 hour, then air-dried at room temperature and 50% relative humidity for at least 12 hours.
2. Place samples 1.5 cm above the surface of 75~80°C water in a 250 ml beaker. Measure the time for fog to appear.
3. Place sample at -10°C for 30 minutes, then transfer place samples 1.5 cm above the surface of 35°C water in a 250 ml beaker.
4. US Mil-C-675C Test: passed moderate abrasion test.

ISTN Contact Information

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