

Anti-Fog Abrasion Resistant Coating



DESCRIPTION

The Anti-Fog coating is a polysiloxane water/solvent based thermal cure coating that combines water sheeting anti-fog performance with excellent abrasion and chemical resistance. The Anti-Fog Coating is ideally suited for applications on Polycarbonate substrates. The Anti-Fog Coating is used for automotive applications, sport and sunglass lenses and a variety of safety eyewear applications where optical clarity and high durability are required. Application of this coating must be within an ISO 14644-1:1995 5 (class 100) clean room.

KEY PERFORMANCE PROPERTIES

- Abrasion resistance
- Water sheeting anti-fog performance
- Chemical resistance
- Optical clarity

CURED COATING PROPERTIES

Cured coating properties were determined from testing.

PROPERTY	TYPICAL VALUES
Coating thickness	3.5microns
Refractive index	1.47
Taber abrasion	16% haze at 500 revs
Anti-fog resistance	>3minutes
Adhesion	100% ASTM D3359-87

IN SERVICE CARE

The Anti-Fog coated surfaces are designed to operate in ventilated environments or sealed environments with normal levels of humidity. Cleaning of the Anti-Fog Coated surface should be performed with a soft dry cloth. Breathe on the surface and wipe in light strokes in a single direction, remembering to ensure the cloth is clean for each stroke.

To keep up with the latest scientific developments, we guarantee that our in-house Metrology and Quality Assurance departments will not only deliver premium, individually inspected and tested optical components to your business, but should there be a need, can deliver bespoke optics designed to your exact specifications.

For more information on any of our optics services, to discuss your requirements or place a direct order with one of our technical sales team, please contact Knight Optical by Email: info@knightoptical.com or call direct on +44 1622 859 444 (UK, EUR or ROW) +1 401 583 7846 (USA & Canada).



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