



DIAMOND
COATINGS



DIAMOX AR/AFP TAC Film

INTRODUCTION

Diamond Coatings, a privately owned group of companies, is a recognised leader in the production and manufacture of vacuum coatings, which include transparent conductive coatings (our Diamox ITO range – Indium Tin Oxide) and optical coatings (our Diamox AR range – Eg: Broadband AR or V coat, 3DAR for Cinema application, Beam Splitter, etc).

Our AR coatings are individually designed and fine-tuned, to be deposited onto both glass and plastic, to meet your specific requirements and specifications.

In addition to our specialist coatings, Diamond Coatings also offer a wide range of coated films and we have now extended our film product range, to offer a high quality Anti-Reflective (AR) film, which we can provide by sheet, roll or directly laminated on your chosen substrate.

Our Diamox AR/AFP TAC film offers 3 key functions, with an Anti-Reflective, Anti-Fingerprint and an Anti-Scratch coating on a high performing TAC film, known for its superior light transmission due to its high birefringence, low absorption and excellent UV resistance properties.

This film is suitable for higher graded displays, with coatings that reduce dirt and debris on the display, whilst offering high transmittance.

DIAMOND COATINGS LTD.

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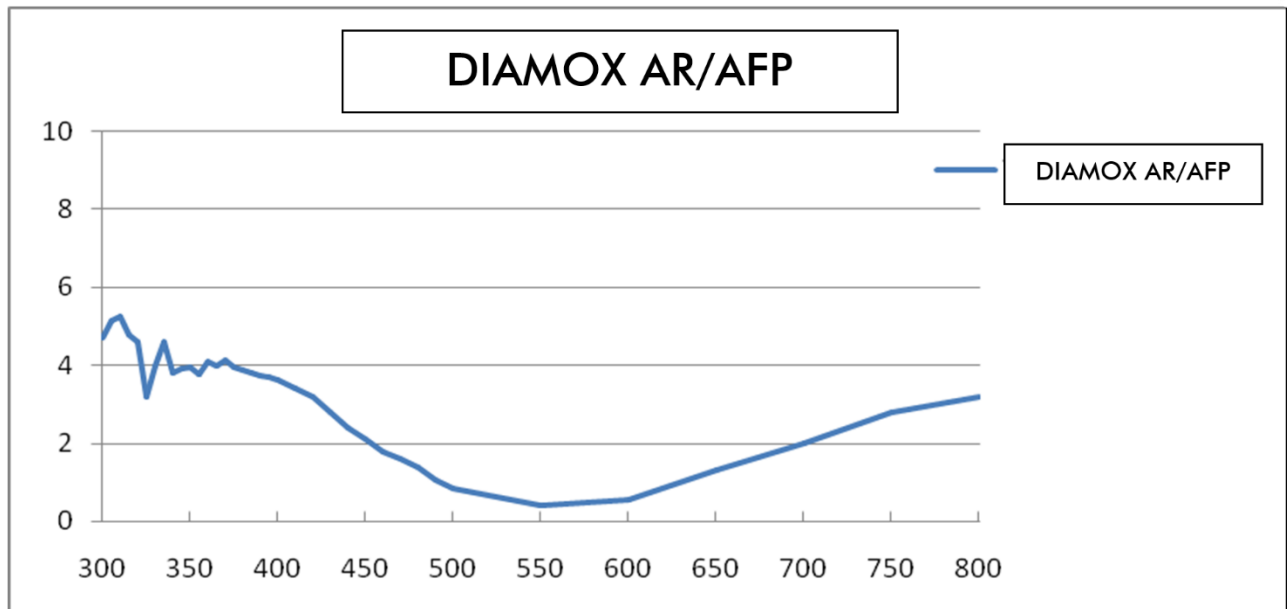


DIAMOX AR/AFP TAC Film

COATING STRUCTURE

Protection PET Film
AFP coating
AR coating
Hard Coating
80um TAC Layer
Release Liner

OPTICAL PERFORMANCE



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PROPERTIES

Product Name	HC/AR/AFP Coated TAC Film	
Series Number	DIAMOX AR/AFP	
Substrate Film	TAC Layer (80µm)	
Items	DIAMOX AR/AFP	Testing Method
Reflectance	0.60%	UV-VIS-NIR Spectrophotometer Absolute Reflectance (5 deg. incidence)
Total Luminous Transmittance	96%	Apply to float glass (1 mm). Haze meter
Haze	0.5%	Apply to float glass (1 mm). Haze meter
Cross-cut Test	Good	Scotch Tape Peeling on AR Coated Layer
Pencil Hardness	3H	750g, JIS-K5600
Abrasion Resistance	○	Steel wool (#0000);500g, load 100 strokes
Water contact angle	110°	Water Drop Angle Gauge
Low/High Temp Durability	1000hrs pass	-30/80°C
Humidity+ Temp Durability	1000hrs pass	60°C,95% humidity

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