



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.

DIAMOND COATINGS LTD.

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DIAMOND COATINGS INC.

1428 N Horne St Suite 130, Gilbert, Arizona, 85233

Tel: +1 (480) 999 3456





Our Diamox AR21617 film offers a two-sided anti-reflective coating with an enhanced level of higher transparency and is suitable dual sided, non-bonded products. The film also has an anti-fingerprint coating on one side.

An additional benefit to our Diamox AR21617 Film is that it also boasts excellent Anti–Static and abrasion resistance properties, as well as being an anti chemical material, all of which contribute to our film's great performance. (See below)

COATING LAYER STRUCTURE

| Protective Film | | |
|-----------------------|--|--|
| AFP Coating | | |
| AR Coating | | |
| Hard Coated 188um PET | | |
| AR Coating | | |
| Protective Film | | |

PROPERTIES

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| Product Name | Diamox AR21617 Film | | | |
|------------------------------------|------------------------|------|-----------------------------------|--|
| Substrate | Polyester film - 188μm | | | |
| Items | Result | | Method of Testing | |
| Luminous reflection | >96% | | JIS K 7361 | |
| Luminous reflection – AFP Side | <1.0% | | JIS R 3106 | |
| Luminous reflection – Non-AFP Side | <0.7% | | JIS R 3106 | |
| Haze | <0.6% | | JIS K 7316 | |
| Cross-Hatch Test | 4B | | Scotch Tape Peeling on AR Coated | |
| | | | Layer | |
| CIELAB | L* | 99.3 | | |
| | a* | -0.7 | JIS Z 8722 | |
| | b* | 2.5 | | |
| Pencil Hardness | 2~3H | | JIS K 5600 | |
| Water Contact Angle | >105 degree | | By DC's Water Drop Testing Method | |
| Abrasion resistance | 10 Times < 5 Lines | | Steel Wool (#0000) 200g Load | |

^{*} The data indicated above is the data measured internally by Diamond Coatings.

Reflection of Diamox AR21617 Film

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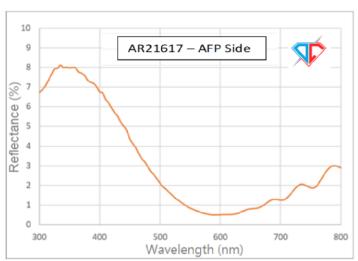
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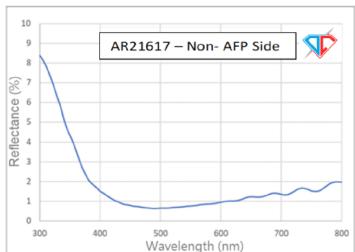
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Environmental Testing

| Test Sample | Result | Test Method |
|--------------|-----------|----------------------------|
| Heat | Unchanged | 103DegC - 500 Hours |
| Cycling Test | Unchanged | -30°C to + 60°C - 50 times |
| Humidity | Unchanged | 80°C - 90% RH - 500 Hours |

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Chemical Resistance

Test Condition:

Deposit a drop of test sample on film surface, wipe the drop after 30 minutes and check the surface.

These tests have not been done by an independent laboratory and are to be used for information only.

Test sample Result

Glass Cleaner Unchanged

Alcohol Unchanged

Acetone Unchanged

Kitchen cleaner 5% aq.sol. Unchanged

NaOH 1% ag.sol. Unchanged

NH4OH 3% ap.sol. Unchanged

HCl 3% ag.sol. Unchanged

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Processing Care Point

Cleaning instructions:

Our Diamox AR21617 film can be cleaned with a soft microfibre cloth and breath wiping. For more stubborn marks, please use a soft cloth with Ethanol or IPA.

Storage:

Store in a cool, dry and well-ventilated area. Avoid exposure to direct sunlight or moisture.

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