

Spec. Number AR-1
Date 2006
Revision 1

Anti-Reflection

This film is designed to reduce reflection over the 425 to 675 nm wavelength range.

Typical characteristics for a broadband AR film include:

- Reduced reflection from the coated surface and more transmitted light
- Reduced first surface ghost images
- Enhanced performance of multi – element optical systems if all surfaces are coated

Due to the diverse characteristics of different light sources in terms of output spectra, no one broadband AR film will produce optimum performance in all applications. Applied Coatings can develop an AR design to your requirements by examining your light source and your optical needs.

Characteristic	Test/Attribute	Indication
Visible Wavelength Reflection	Maximum reflectivity between 425nm and 675nm to be less than 0.7%. Average reflectivity between 425nm and 675nm to be less than 0.35%.	How well the film anti – reflects the substrate.
Angle of Incidence	0°	
IR reflection	N.A.	
Adhesion	Tape test	Physical adhesion to substrate
Abrasion	40 strokes with 1 pound bearing force	Film's resistance to abrasion
Humidity	24 hours at 120 +/-4 °F, RH of 95 to 100%.	Indicates resistance to heat and moisture combination
Substrate info	Customer Specific	
Cosmetics	Customer specific	