Anti-reflective coatings

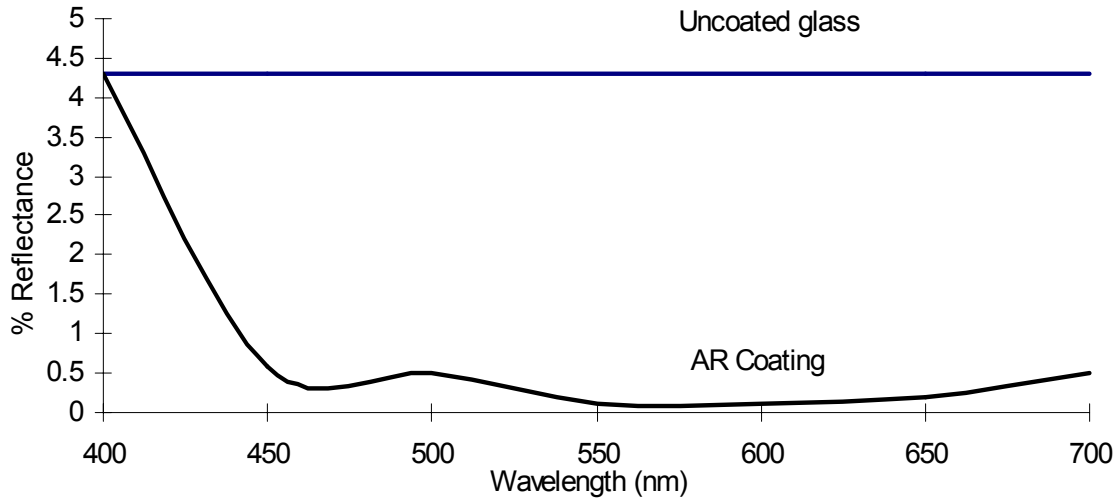
Multi-Layer Anti– Reflective (MLAR) coatings are used on front surface filters and are designed to minimize reflection and maximize transmittance on over the visible spectrum. It is especially useful in applications involving high resolution displays. Multi-Layer Anti– Reflective (MLAR) coatings are deposited on the glass or polycarbonate substrate using a vacuum deposition process.

Product format

- **MLAR coated clear glass** is available for windows up to 600 x 730mm and in thickness of 1.1 and 1.6mm.
- **MLAR coated clear polycarbonate** is available for windows up to 360 x 275mm and in a thickness of 0.5mm upwards as single side or double side coating.

Other thickness and MLAR coatings on both surfaces are achieved though optical index matched lamination. Both glass & polycarbonate parts can be supplied cut and finished to final specification by our precision CNC machines.

Spectral Properties



The specular reflection from a plain sheet of glass is approximately 4.5%. MLAR coatings will reduce this to less than 0.5% average reflectance across the visible spectrum. Typical photopic reflectance ≤0.25%.

Environmental and Durability Properties (MLAR coating on Glass only)

- Abrasion Resistance: MIL-C-14806A + MIL-M-1350SC
- Adhesion: MIL-C-48497A
- Corrosion: MIL-STD-810E
- Humidity: MIL-C-48497A
- Solubility: MIL-C-48497A

Design options

- Custom optical lamination for impact and safety resistance.
- EMI shielding with laminated **EmiClare** mesh or ITO coated glass.
- MLAR on one or both surfaces.
- Privacy, infra-red reflection and contrast enhancement filters.

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