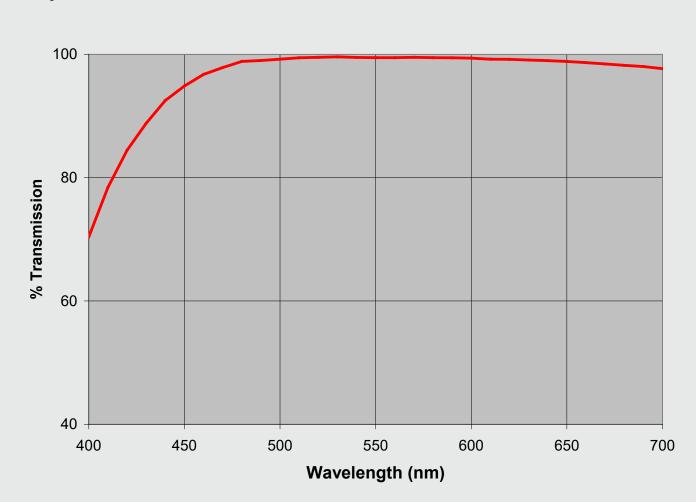
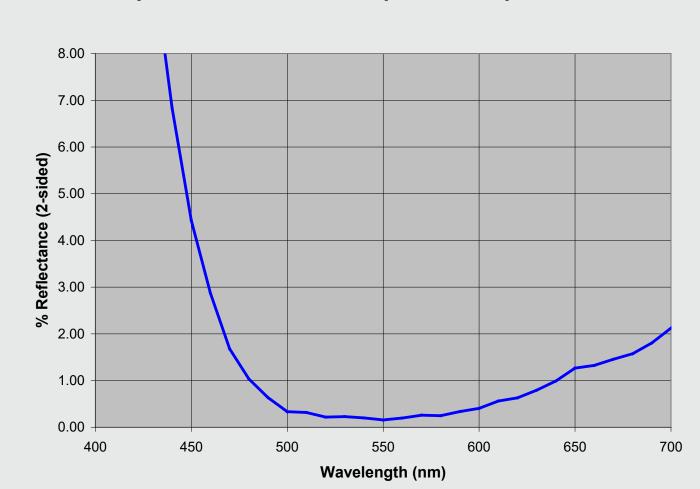
Development and Licensing of AR Coating Products

YTCA's patented optical coating technologies pioneered the developments and applications of Anti-Reflective (AR) coatings by integrating the optical performance, hardness, abrasion resistance, anti-smudge and environmental durability together. Project received Toyota Engineering Award of Innovation for instrument display used in 1st generation of Prius. Applications include meter/electronic devices panels, museum/art displayer and ophthalmic lens coatings.

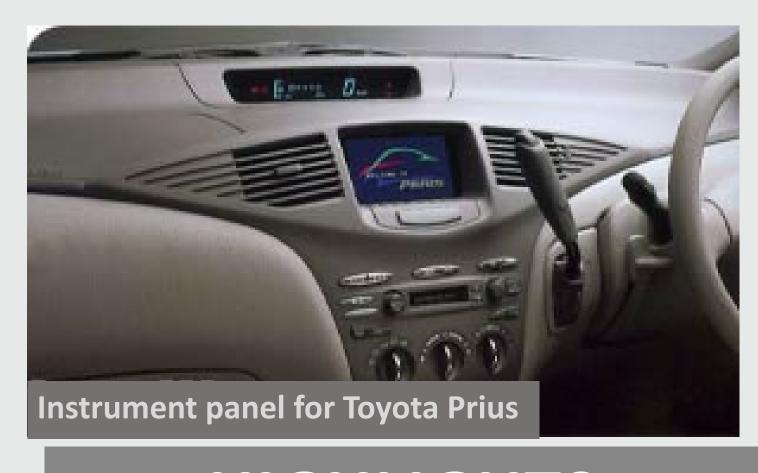
Optical Transmittance and Reflectance of a 4-layer AR coated plastic panel





Items	Typical Test Results
Total reflectance (CIE%)	~0.6%
Total light transmittance (CIE%)	>99%
Adhesion (cross-hatch) test	No visible change
Pencil Hardness	≥4H
Solvent rub	No visible change
Contact Angle	≥100°
Haze (%)	<0.2%





HIGHLIGHTS

- Solution based coating process produced by dip-coating or spin-coating processes
- Coatings are cured by rapid thermal curing and/or UV curing processes
- Applicable substrates: plastic (PMMA, PC, PET, etc), glass and metallic
- Large variety of product portfolio ranging from abrasion resistant hardcoat, one-layer anti-glaring, anti-smudge to two-to-four-layer AR coatings
- Tailor to speficific product needs to meet proformance and processing cost
- Offer non-exclusive technology transfer and license.

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