## Plastic Plates with Anti-Reflection Structure

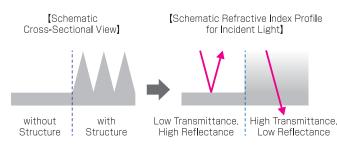
(Development Samples)

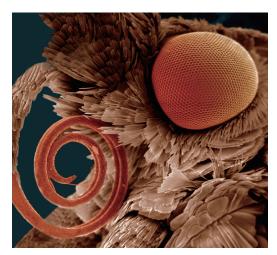
### NANO DOT ARRAY

## Nanosized dot-type structure which increases transmittance and reduces reflectance has been successfully formed on the surface of plastic plates.

### Anti-Reflection Structure

Light reflection usually happens at the boundary where the refractive index drastically changes, whereas the boundary with nanosized dot-type structure has "gradated refractive index" against incident light, resulting in larger transmittance and smaller reflectance. This kind of anti-reflection structure has been known existing at the surface of moth's eye.





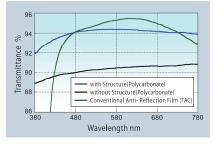
Anti-reflection structure based on these principles has been successfully formed on the surface of plastic plates.

# (Appearances of Plastic Plates without Structure / with Structure) Without Structure With Structure

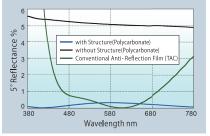
### Custom Design of Optical Characteristics

Customized design is available. (e.g. high transmittance type, low reflectance type)

#### [Optical Characteristics of Development Samples (Material: Polycarbonate)]



Transmission Characteristics in the Visible Light Region



Reflection Characteristics in the Visible Light Region

[Technical information /contact us]
https://www.ojiholdings.co.jp
/r\_d/theme/nano\_dot\_array.html



### Oji Holdings Corporation



