

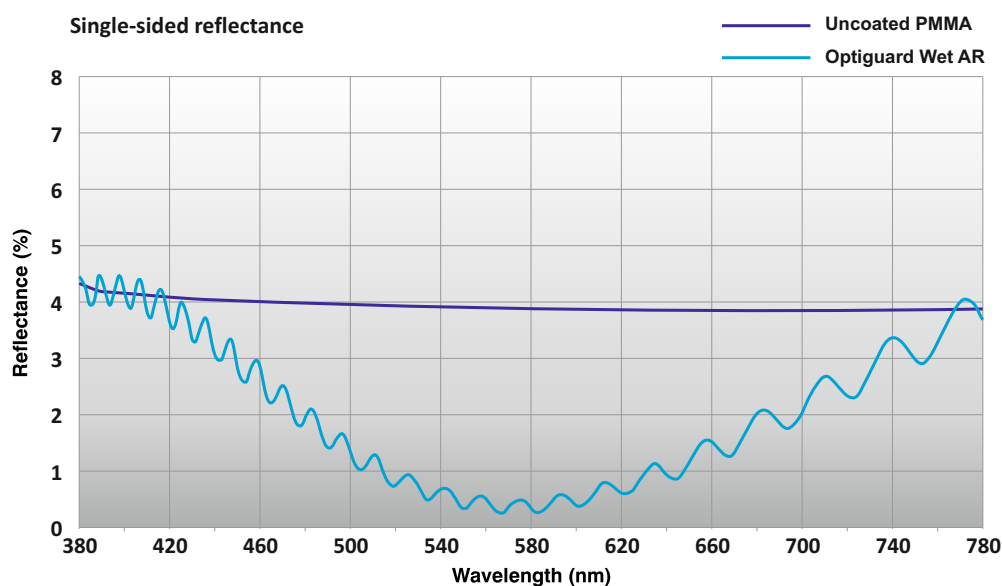
Optiguard WET AR™

Optiguard WET AR surface treatment is a cost effective alternative to the exclusive vacuum deposited Optiguard DRY AR. The performance of WET AR regarding light transmission and reflectance is good. It has a accurate colour reproduction and is easy to clean, furthermore it has great chemical and abrasion resistance.

It is an excellent choice for a wide range of applications e.g. large window applications like information displays.

TECHNICAL DATA

Spectral Properties



Optical Properties

Type	%
Reflectance	2 %
Transmittance	97 %

Durability

Properties	Test Conditions	Results
Adhesion	Cross Hatch Tape Test	No coating removal
Pencil hardness	ISO 15184 – BS 3900 – E19	4-5H
Humidity	500 h, 60 °C, 95 % RH	No change
Thermal resistance	500 h, 80 °C	No change
Hot water	500 h, 60 °C	No change
Cleaning Agents	Methyl and Ethyl Alcohol	No change
Light Damage	Exposure to Xenon Lamp, 500 h	Pass
Salt water resistance	5 % NaCl spray, 35 °C, 28 days	Pass

*Spectral, optical and durability specifications are all measured values and not guaranteed.

TECHNICAL DATA continued

Additional Chemical Resistance Properties

Properties	Test Conditions	Results
Acetone	Immersion for 1 min @ 22-25 °C and rinsing in distilled water before inspection	No change
H ₂ SO ₄ - 10 % solution		No change
HCl – 10 % solution		No change

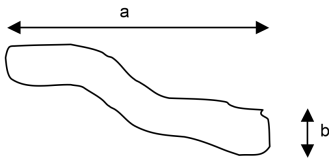
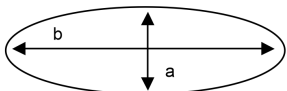
Substrate Properties (PMMA)

Tensile strength (rupture)	75 MPa
Elongation at rupture	8 %
Flexural strength (rupture)	120 MPa
Heat stability - Vicat	100 °C
Linear thermal exp. coefficient	0.07 mm/m °C ⁻¹

Quality & Inspection Standard

Test Condition	Viewing distance 60 cm, illuminated with 20W fluorescent lamp (@ 40 cm). Viewing conditions: Black background and ambient luminance < direct surface luminance.	
Foreign article, pinhole & bubble	Diameter (mm)	Permissible Number (pcs)
	≥ 4.0	0
	≥ 2.0 - < 4.0	1
	≥ 0.5 - < 2.0	5
	< 0.5	Not Rejected
	Defect diameter represents the core of the defect	
Burn, Dirt	Must not be visible under ceiling light	
Finger Print	None	
Reflectance Colour	Permissible in range between violet and blue violet	

*Inspection level for 1200 x 1400 mm sheets

Calculation of the defect	Applicable defect: Foreign article, Pinhole, Bubble Calculation: Average Diameter = (a+b)/2	
		

*Inspection conditions for 1400 x 1200 mm sheets

Indicated values are generic and subject to change without any notice or obligation on the part of the manufacturer