

ARC COATING

ARC is an anti-reflective coating especially developed for solar applications, and more particularly for photovoltaic applications. ARC is a single-side coating deposited on extra clear patterned glasses AV LITE and AV SUN during the tempering process.

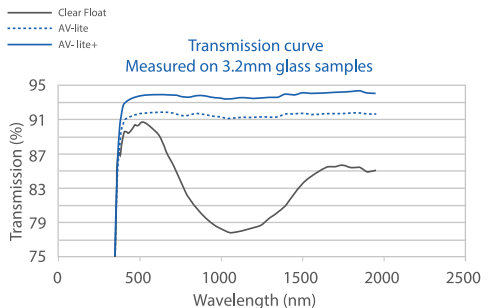
Being single-sided, ARC minimizes the reflection at the glass/air interface without affecting the excellent adhesion between the glass and the interlayer used in laminating photovoltaic modules.

Being deposited online with the tempering process, it also ensures an optimal durability and an excellent aesthetics.

PRODUCT DESCRIPTION

Type Anti-reflective coating (single side)
Available as AV-lite +

Applications Cover glass for photovoltaic modules (crystalline or CIGS)
Cover glass for thermal collectors



MAIN CHARACTERISTICS *

Transmission increase (%)	Up to 2.4%	At normal incidence
Energy output increase (%)	Up to 5%	In actual conditions (kwh)
Aesthetics	Neutral reflectance	
	Hydrophilic	

AV can help evaluating these values according to other standards and/or to the specificities of the final application.

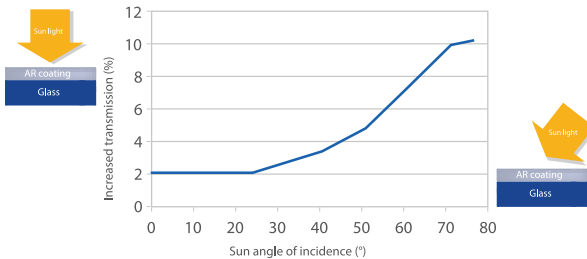
DURABILITY TESTS *

Damped heat	Passed	IEC 61215
Thermal cycle	Passed	IEC 61215
Climatic SO2	Passed	EN1096-2 (DIN 50018)
Salt spray	Passed	EN1096-2 (DIN 50021)
Mechanical resistance	Passed	EN 1096-2

Transmission increase vs Energy output increase

While ARC increases the transmission by up to 2.4% at normal incidence, the anti-reflective property of ARC (measured by comparing a coated and an uncoated glass) is significantly increased when the angle of incidence of the sunlight is increased (i.e. from high sun to low sun), as can be seen on the graph. When taking into account the angle of incidence of the sunlight over the days, months and years, this eventually translates into up to 5% of energy output increase in actual conditions.

Light transmission versus incidence angle



Quality control



Safety package



Worldwide logistics



alliaverre
FACTORY



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