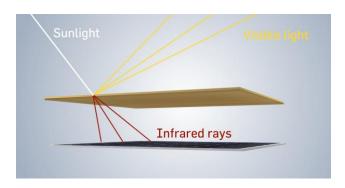


Solaxess Coloured Films for Active Façades

Introduction

Solaxess coloured films enable PV module manufacturers to provide architects, developers and ultimately owners with white or light-coloured active full-building elements that are cost effective, durable and aesthetically pleasing.



Features

- Excellent aesthetics-performance trade-off for building-integration of PV modules (BIPV)
- High visible-energy reflexion and high infrared-energy transmission
- Compatible with infrared efficient solar cell technologies (e.g. c-Si, CIGS, etc.)
- Flexibility: can be adapted to any size and shape required by the design
- Reduced module's operating temperature
- · Any bright colour can be manufactured

Typical Physical Properties (data not for specification purposes)

Technical characteristic	Information
Colors available	Vivid white, light-grey, other colours in development
Film thickness	135 microns
Area density	200 g/m ²
Shrinkage rate	<1% in both TD and MD (at 150°C unrestrained for 30 mins)
Standard roll width	1'665 mm
Certification	IEC 61215:2016 / IEC 61730:2016 on-going

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes

Storage

Shelf life is 6 months under proper storage conditions. The product should be stored indoors with the temperature controlled between 15°C and 25°C and relative humidity between 25% and 50%, avoiding direct sunlight. The product should not be placed near any heating equipment or exposed in a dusty place. The product should be used within 1 month after the package is unfolded. Any unused product should be properly sealed with original package or similar package.

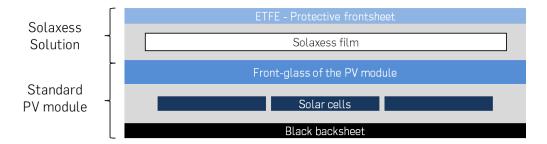


Film Integration into Photovoltaic Modules

Solaxess provides lamination guidelines and recommends specific films to be used in combination with its coloured films to achieve the best results.

Solaxess coloured films are typically integrated during the PV module lamination itself but can also be added on top of pre-laminated black modules. In any case, it is up to the PV-module manufacturer to ensure of the adequate lamination quality, performance and integrity of the PV module for the application targeted.

Typical Solaxess coloured film lamination on top of standard glass/backsheet c-Si module:



Photovoltaic Module Electrical Performances



Left image: First realisation on an existing building with PV modules using Solaxess white films (Boudry, Switzerland).

White	Beige
110 Wp/m²	125 Wp/m²
Light grey	Light Terracotta
132 Wp/m²	127 Wp/m²

Achievable power output of mono c-Si PV modules using Solaxess coloured films

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