



EMIRATES INSOLAIRE

Kromatix™

Solar Glass Datasheet

Adding Color
to the Solar Industry

A photograph of a sunset or sunrise. The sun is a bright, glowing orb just above the horizon, casting long, golden rays across the sky. The sky is filled with soft, wispy clouds that catch the light, creating a warm and colorful atmosphere.

Kromatix™

SOLAR GLASS



Patented Swiss Technology

Emirates Insoleire uses Kromatix™ patented technology. This technology has been developed in close collaboration with the Swiss Federal Institute [EPFL], and allows for the very first time both Photovoltaic Modules and Solar Thermal Collectors to be coloured, without compromising on the performance, efficiency or architectural designs.

High-Transmission Coloured Solar Glass

Emirates Insoleire produces Kromatix™ coloured solar glass optimised to offer the best possible compromise between colour intensity and solar transmittance. The solar transmittance of the coloured solar glass slightly varies from a colour to another but remains higher than 85%. These high values are due to the absence of pigments or taints which has the additional benefit of providing long term colour stability with time and exposure to the sun and the natural elements.

Mat finish

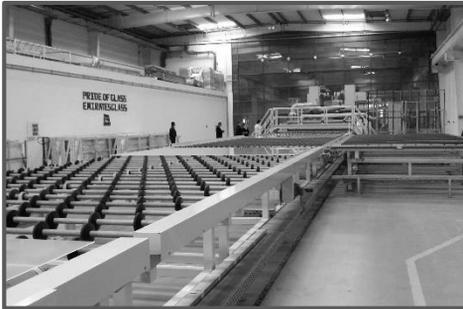
Kromatix™ coloured solar glass has a beautiful opaque mat finish, making the inner workings of the solar panels invisible and thus enhancing the overall aesthetics of the solar panels. The mat finish is created thanks to the nano-roughness of the glass outer surface which has other beneficial effects: improvement of hemispherical glass transmittance and less cleaning requirements.

Certificates

Kromatix™ coloured solar glass has been submitted to most exigent quality controls and is IFT certified.

Manufacturing Process

The colour of Kromatix™ solar glass is obtained by a complex nano-scale multilayer deposition by plasma processes. Emirates Insolaire uses a fully automated equipment of the latest generation, allowing full control of the deposition process, and benefiting therefore of a perfect reproducibility and constant products quality.

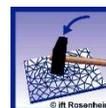


Technical data

	Grey	Light-grey	Blue	Bluish-green	Green	Bronze	Gold	Terracotta
Solar transmittance T_{sol}^*	90 ± 1 %	85 ± 1 %	88 ± 1 %	88 ± 1 %	87 ± 1 %	89 ± 1 %	86 ± 1 %	87 ± 1 %
<i>* values for 3,2 mm thick glass</i>								
Available thicknesses	3.2 mm and 4 mm - 6 mm and above on demand							
Available dimensions	Up to 2250 x 3210 mm							
Edges	arised or C-form							
Heat treatment	annealed, heat-strengthened or fully tempered							

Mounting on solar panels

Kromatix™ glass doesn't require any modification of the lamination or mounting process. It can be simply washed and installed on solar panels in the same way as usual transparent glass covers.





www.emiratesinsolaire.com

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Kromatix™ solar glass and modules are produced and distributed by Emirates Insoaire LLC. Established in 2013 and headquartered in Dubai, Emirates Insoaire is part of Glass LLC, the glass pioneers in the Middle East, Emirates Insoaire is a joint venture of Dubai Investments PJSC – a leading company in the UAE with 40 subsidiaries & joint ventures operating across a diverse range of sectors, and Swissinso Inc., a company pioneering in the development and application of new solar technologies.



www.dubaiinvestments.com

Incorporated in 1995, Dubai Investments PJSC is a leading investment company listed on Dubai Financial Market and owns over 40 subsidiaries and joint ventures across sectors including manufacturing, financial investments, real estate development and mergers and acquisitions. One of its subsidiaries is Glass LLC, the first glass holding company in the Middle East, dedicated to meeting the growing needs of the regional glass industry. Glass LLC incorporates five companies: Emirates Glass LLC, Emirates Float Glass, Lumiglass Industries, Saudi American Glass Company and Emirates Insoaire.



www.swissinso.com

Swissinso Inc. is a company pioneering in the development and application of new solar technologies. Over the last decade it developed the Kromatix™ technology in close cooperation with the Swiss Federal Institute of Technology [EPFL]. This sustainable technology allows solar solutions to be completely integrated into the architectural design of all types of buildings, the first-of-its-kind.

Emirates Insoaire LLC

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