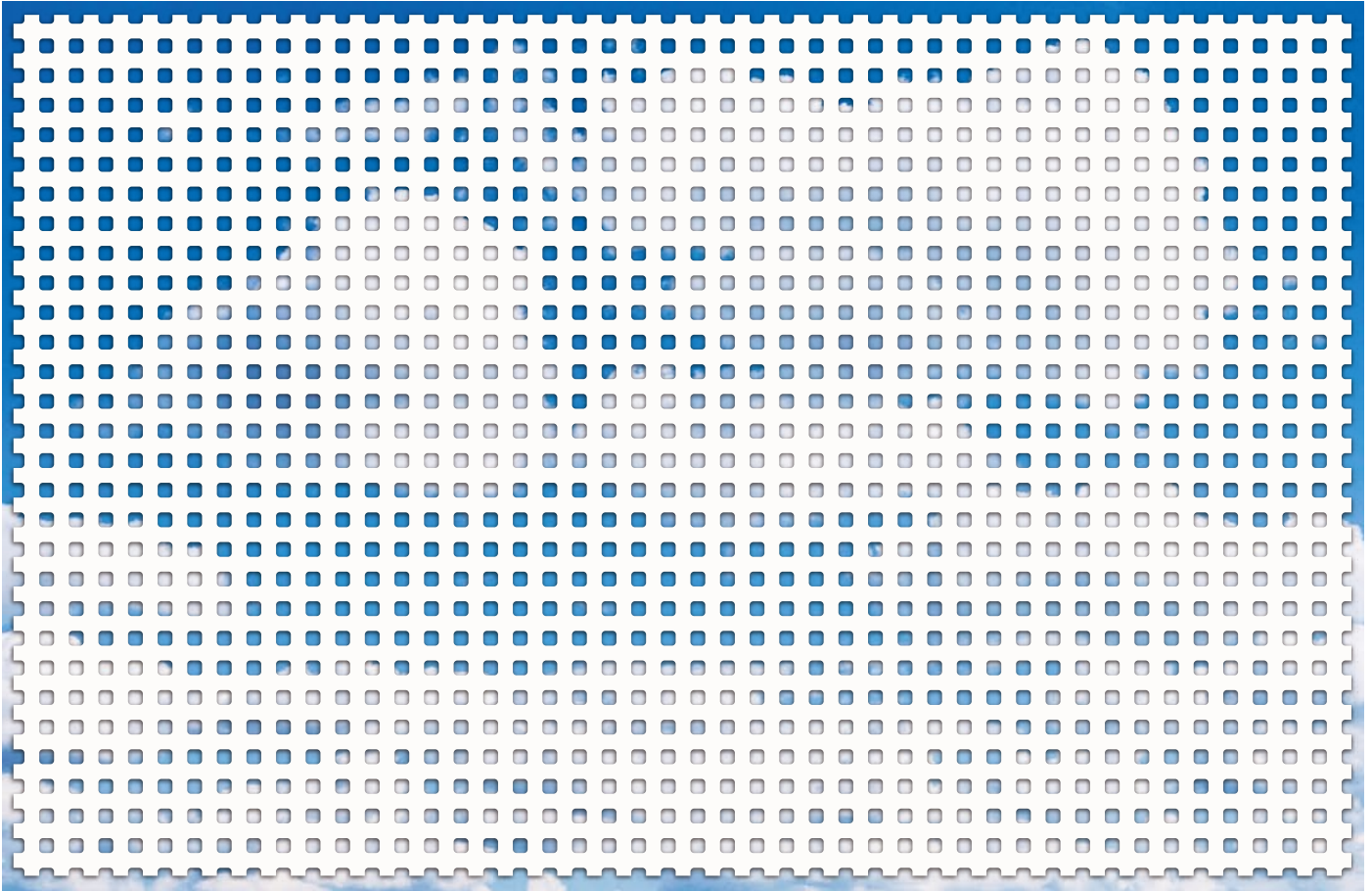


 **PURIFY MESH 30**
TiO₂ - Coated Mesh Membrane

PURIFY MESH 30

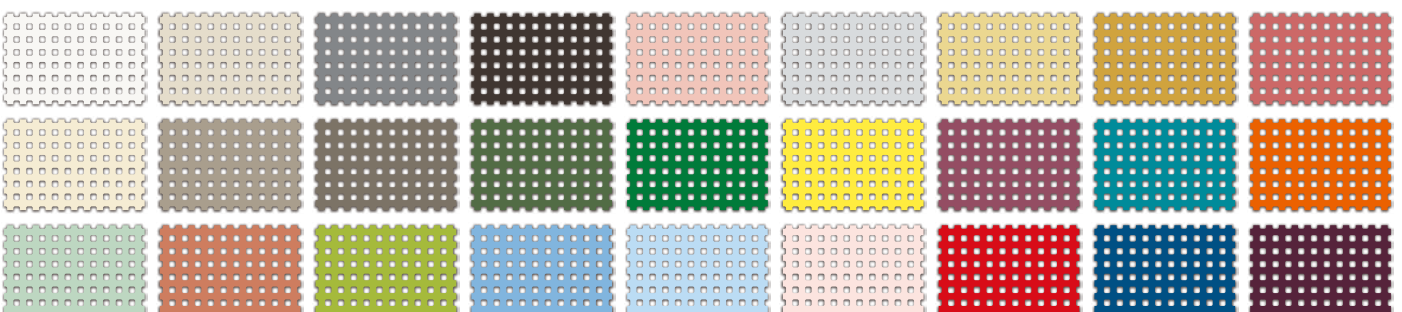
Purify Mesh 30 is the world's first PVC mesh membrane that incorporates TiO₂ photocatalyst coating for building façade applications. Design stunning structures with the flexibility of membrane while simultaneously reducing the negative effects of air pollution in your area. Take environmental sustainability one step further with Purify Mesh 30. and make your iconic façade stand out.



Designability

- Feature 1** Transform your building from flat to free form curvature design for building facades.
- Feature 2** Realize beautiful lighting conditions with light transmitting through the mesh openings.
- Feature 3** Iconic visibility from the outside, while maintaining high visibility from within the building space.
- Feature 4** From white to dark colors, including metallic colors: the freedom to choose virtually any color to realize your perfect architectural design.

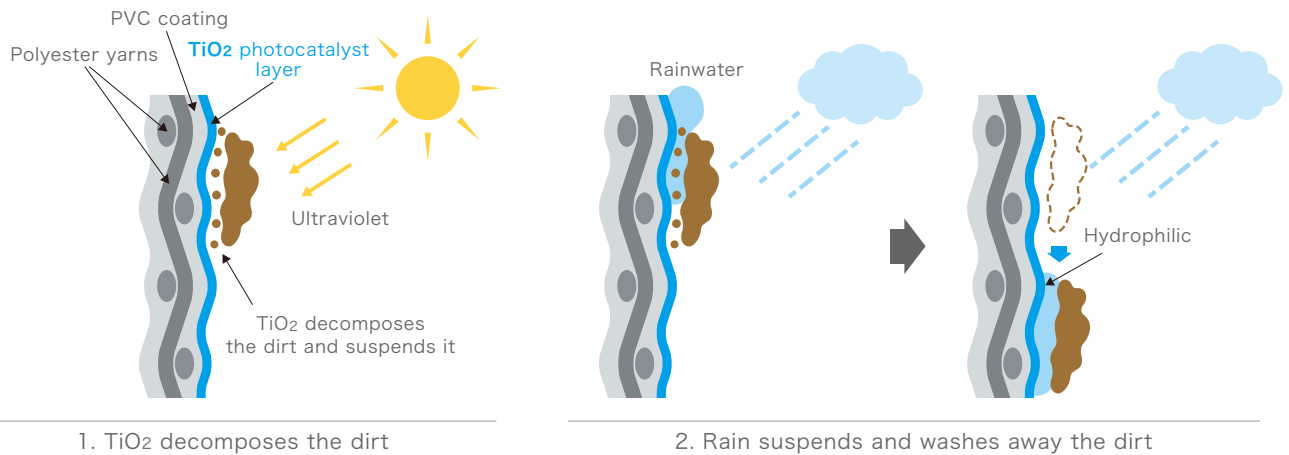
Variety of Colors



* Certain custom colors may not be possible due to technical reasons.

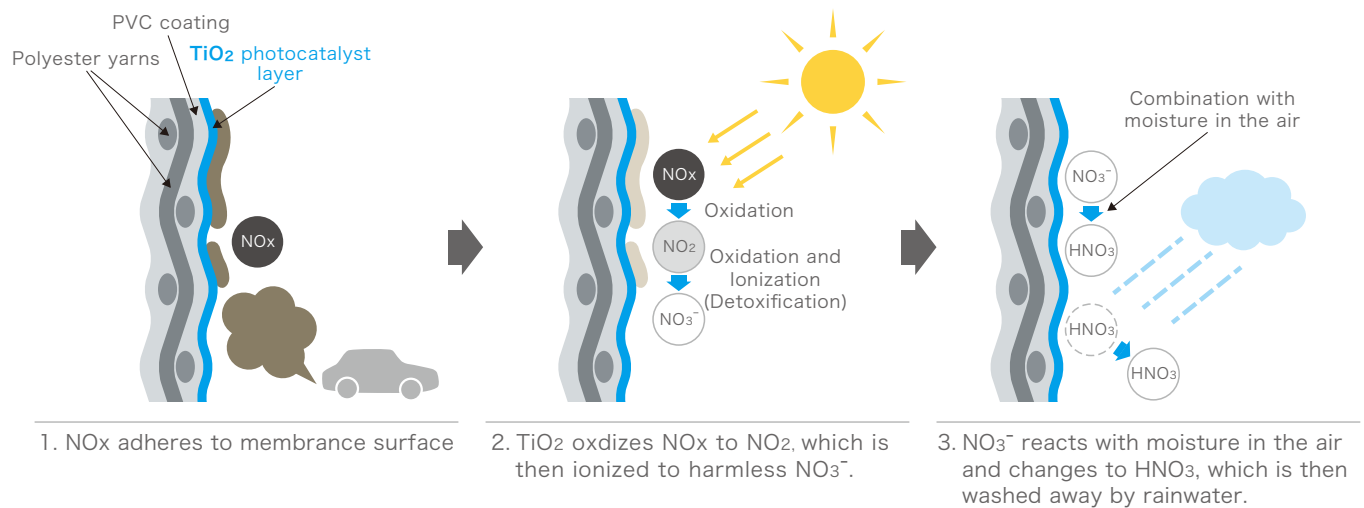
Self Cleaning

TiO₂ photocatalysis has a function of absorbing natural sunlight (UV) and decomposing organic matter. For this reason, a phenomenon occurs: when natural sunlight irradiates the membrane, stains from organic matters decompose.



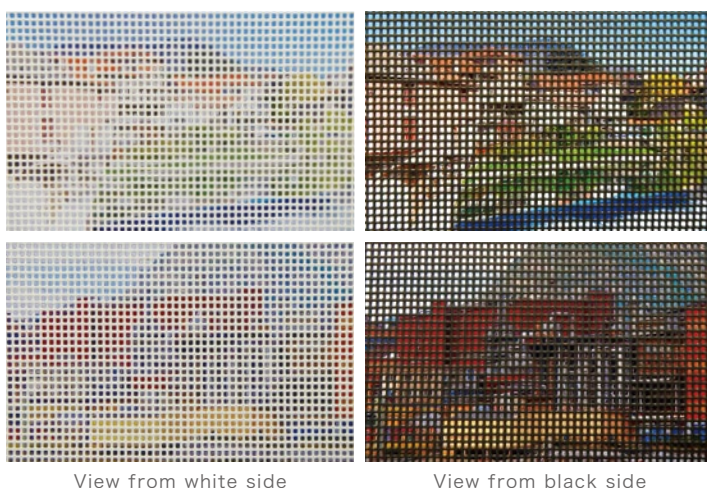
NO_x Reduction

One of the contributors to air pollution in cities are the emissions from automobiles that include nitrogen oxide NO_x. TiO₂-coated membrane has a feature that decomposes NO_x through oxidation reaction, and purifies the surrounding air.

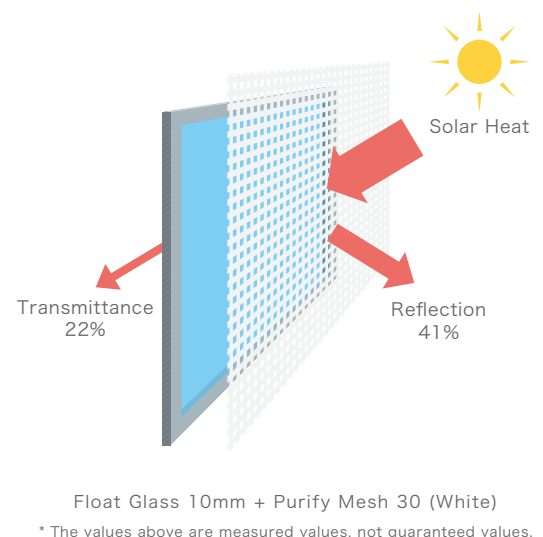


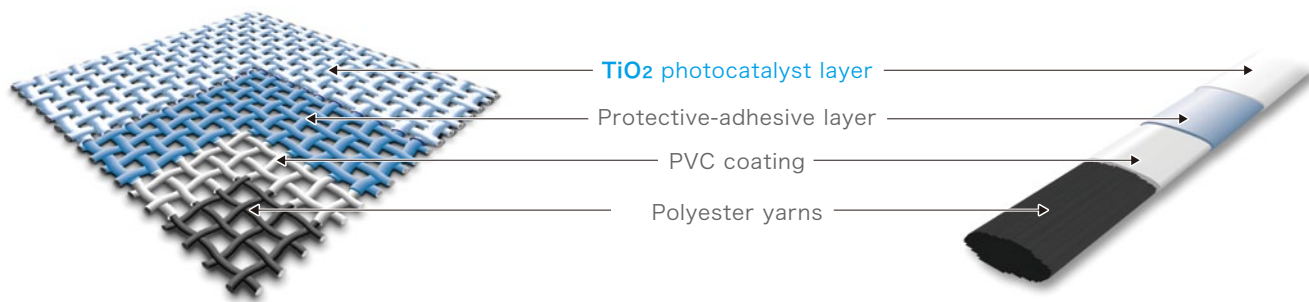
Visibility

The visibility is much higher with the black side of the surface coated in black versus white.



Thermal Barrier





■ Typical Membrane Properties

Property	Value	Test Method
Thickness (mm)	1.1	JIS K 6404-2-3
Weight (g/m ²)	615	JIS K 6404-2-2
Tensile Strength(Warp X Fill)	(N/5cm)	3425 X 3355
	(lb/in)	405 X 395
Tear Strength(Warp X Fill)	(N)	567.8 X 554.2
	(lb)	11.6 X 107.5
Breaking Elongation(Warp X Fill)	(%)	28.5 X 31.0
Flame Retandancy	M1	NFPA 701
Euroclass		
Light Transmittance (%)	29	JIS R 3106

■ Photocatalyst Performance

Registration Number *1	2012-003
Type of Photocatalyst	Titanium Dioxide
Photocatalyst Processing Parts	Outer Surface of Membrane Material

Self Cleaning Effect (Stain Decomposition Performance)

Decomposition Activity Index *2 (nmo/L/min)	18.1	JIS R 1703-2
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Air Purification Effect (Effect of Nitrogen Oxide Reduction in the Air)

Amount of Nitrogen Oxide Removal *3 (μ mol)	1.15	JIS R 1701-1
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*1 This product is certified by the PIAJ.

*2 The PIAJ certification standard for the decomposition activity index is 5 or higher the value is, the greater the performance indicated.

*3 The PIAJ certification standard for NOx reduction is 0.50μ mol or higher. With this value, the effect of eliminating 10% of NOx emitted from vehicles can be expected. This value is equivalent to the amount of NOx that can be removed per 50cm² when subjected to ultraviolet irradiation for 5 hours, and the higher this values is, the greater the reduction effect becomes.

* The values above are measured values, not guaranteed values.

Usable Place : Outdoors

Safety : It has been confirmed that the products satisfy the PIAJ safety standards regarding acute oral toxicity, primary skin irritation and mutagenity.

Instructions for Use : In order to achieve the product's full effect and benefits, we recommend preventing dirt build up through regular cleaning. Also note that the amount of nitrogen oxide reduction in an actual environment depends on the area of construction and ultraviolet irradiation strength.



PIAJ Mark! Proof of Reliable Performance

* The PIAJ Mark is the certification that the Photocatalysis Industry Association of Japan, the sole photocatalyst industry organization in the country, gives to photocatalyst products for which performance is recognized as appropriate by the association based on JIS test methods.

* PIAJ: Photocatalysis Industry Association of Japan

MakMax
Better Environment Through Membrane

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