



NSG Group...
Creating a healthier,
cleaner, and safer world



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Pilkington **SaniTise™**
For Commercial Applications

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Pilkington **SaniTise™**

is a transparent pyrolytic antimicrobial glass developed by NSG Group as a commitment to creating a healthier, cleaner and safer world.

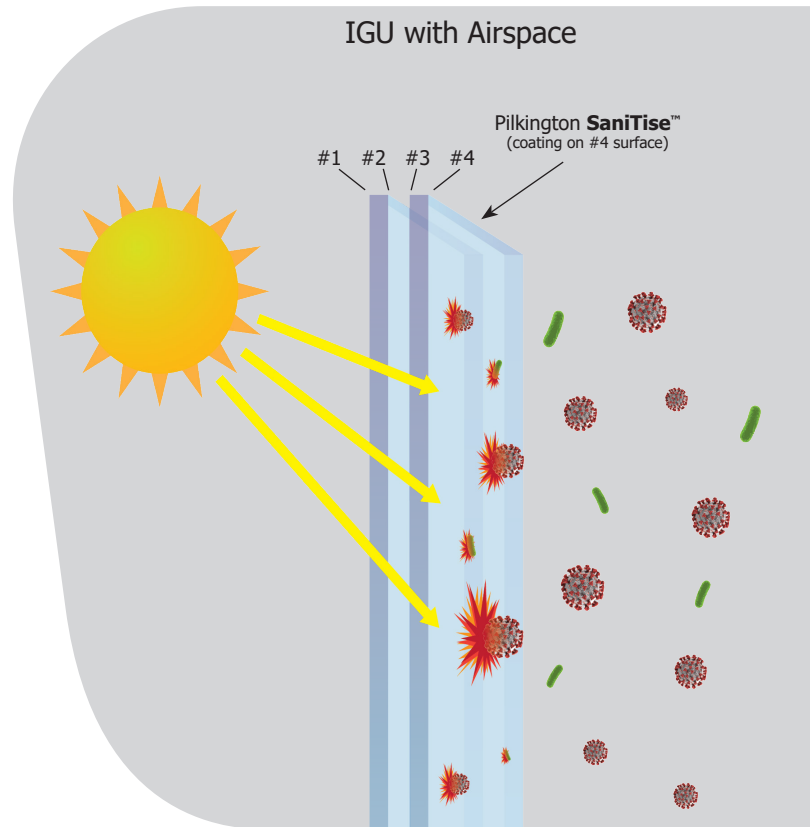
How it works

The glass is produced with a TiO_2 based pyrolytic coating deposited directly onto one glass surface. When exposed to UV radiation through natural daylight, the Pilkington **SaniTise™** coating is activated.

It then reacts with water vapor within the atmosphere resulting in a photocatalytic process that inactivates (destroys) the viruses and bacteria on the coated glass surface.

Once Pilkington **SaniTise™** reaches full activation, it will maintain its antibacterial and antiviral activity for enveloped viruses throughout its exposure to natural UV light. Even after the exposure to UV radiation has ceased, Pilkington **SaniTise™** will maintain this behavior for at least a further two hours.

Pilkington **SaniTise™** coating must be UV activated to be beneficial

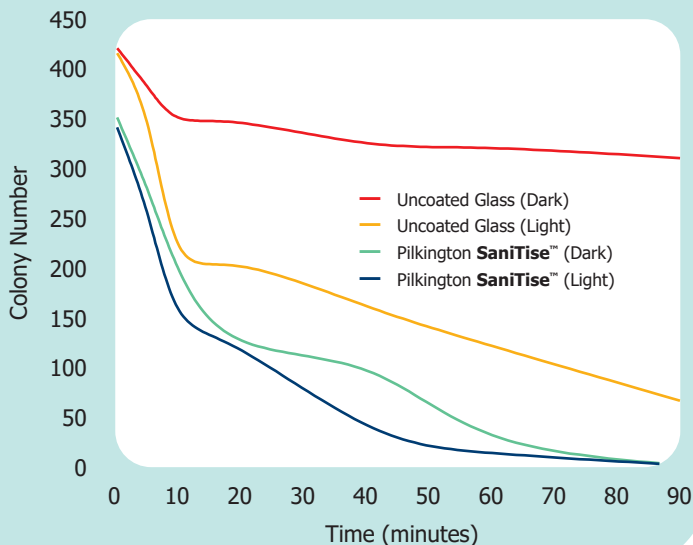


Features and Benefits

- Durable Pyrolytic coating
- Temperable
- Bendable
- Compatible with commercial grade cleaning products
- Multiple tints/substrates available
- Thickness available from 3.2 mm to 10 mm

Antibacterial Testing:

Staphylococcus aureus F.



All samples pre-exposed to UV light before deposition of pathogens at 0 minutes; 'Dark' samples then kept in darkness, 'Light' samples exposed to UV.

Applications

- Schools
- Hotels
- Office Buildings
- Storefronts
- Hospitals
- Assisted Living Facilities
- Universities
- Zoos
- Airports
- Libraries

Product	Nominal Glass Thickness		Visible Light (%)			Solar Energy (%)		UV %	U-Factor				SHGC	SC
	in.	mm	Transmittance	Reflectance Outside	Reflectance Inside	Transmittance	Reflectance		Transmittance	Summer		Winter		
								Air Btu/(hr·ft ² ·°F)		Air W/(m ² ·K)	Air Btu/(hr·ft ² ·°F)	Air W/(m ² ·K)		
Low-e (coating on #2 surface) outer lite and Pilkington SaniTise™ (coating on #4 surface) inner lite														
Pyrolytic Low-e / Uncoated Clear Glass	1/4	6	73	16	17	52	13	37	0.33	1.9	0.33	1.9	0.62	0.71
Pyrolytic Low-e / Pilkington SaniTise™	1/4	6	70	19	21	52	15	28	0.33	1.9	0.33	1.9	0.60	0.69
Double Silver Low-e / Uncoated Clear Glass	1/4	6	70	11	12	33	28	18	0.27	1.5	0.29	1.7	0.39	0.45
Double Silver Low-e / Pilkington SaniTise™	1/4	6	67	14	17	32	30	14	0.27	1.5	0.29	1.7	0.37	0.43
Triple Silver Low-e / Uncoated Clear Glass	1/4	6	61	11	12	23	39	6	0.27	1.5	0.29	1.6	0.27	0.31
Triple Silver Low-e / Pilkington SaniTise™	1/4	6	58	13	17	21	40	5	0.27	1.5	0.29	1.6	0.26	0.29
Pilkington SaniTise™ (coating on #4 surface) inner lite														
Grey Glass / Uncoated Clear Glass	1/4	6	39	7	12	32	6	17	0.50	2.8	0.47	2.7	0.45	0.52
Grey Glass / Pilkington SaniTise™	1/4	6	37	8	17	32	7	13	0.50	2.8	0.47	2.7	0.44	0.51

An insulating unit consists of two lites of equal glass thickness, and 1/2 in. (12.7mm) airspace.

U-Factor is based on NFRC/ASTM standards.

All performance values are center-of-glass values calculated using the LBNL WINDOW 7.5 program.



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington and "SaniTise" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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