



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



Pilkington **SaniTise™**
For Public Transportation

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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

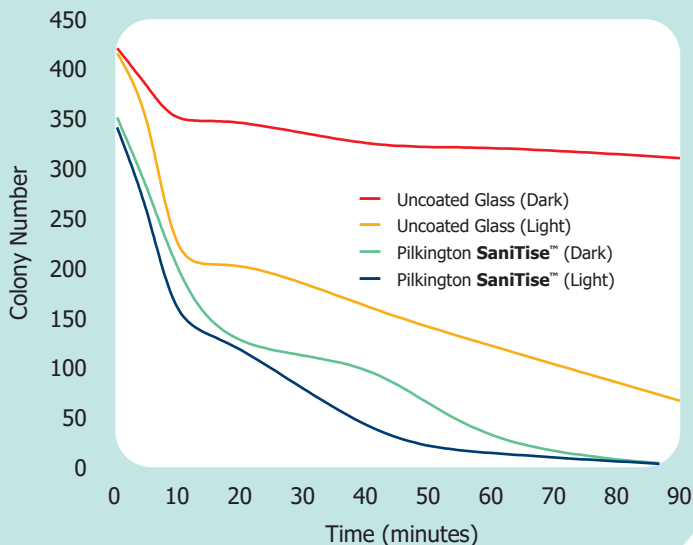


Applications

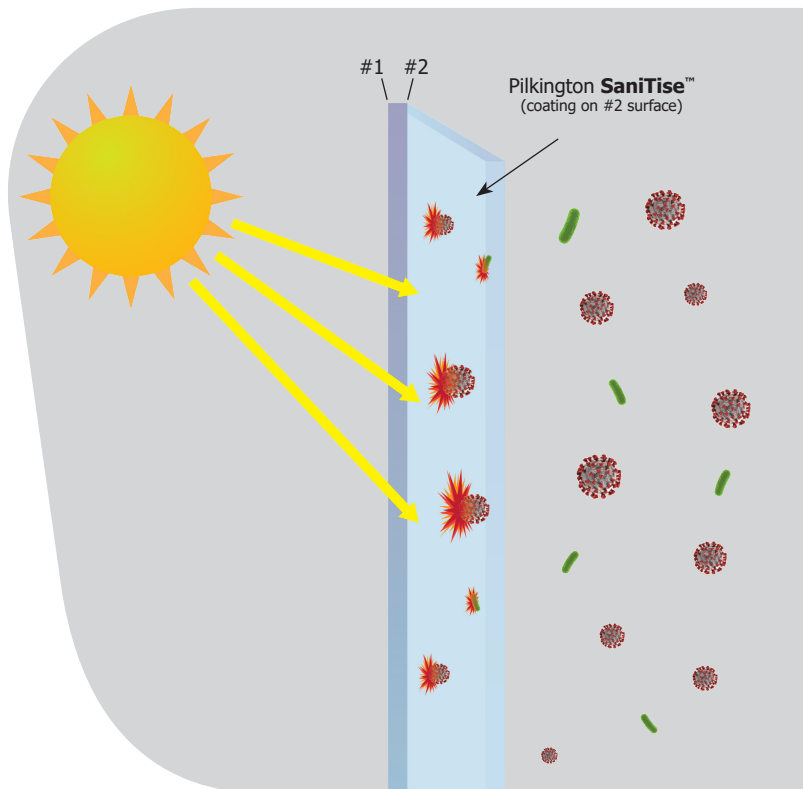
- School Buses
- Hotel & Airport Shuttles
- Trains
- Public Transit Stations
- City/Metro Buses
- Cruise Ships

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.



| Product | Nominal Glass Thickness | | Visible Light (%) | | | Solar Energy (%) | | UV % | U-Factor | | | | SHGC | SC |
|---|-------------------------|----|-------------------|---------------------|--------------------|------------------|-------------|------|---------------------|--------------|---------------------|--------------|------|------|
| | in. | mm | Transmittance | Reflectance Outside | Reflectance Inside | Transmittance | Reflectance | | Summer | | Winter | | | |
| | | | | | | | | | Air Btu/(hr-ft²·°F) | Air W/(m²·K) | Air Btu/(hr-ft²·°F) | Air W/(m²·K) | | |
| Pilkington SaniTise™ (coating on #2 surface) | | | | | | | | | | | | | | |
| Uncoated Clear Glass | 1/8 | 3 | 91 | 8 | 8 | 87 | 8 | 80 | 0.94 | 5.3 | 1.04 | 5.9 | 0.89 | 1.02 |
| Pilkington SaniTise™ | 1/8 | 3 | 85 | 15 | 15 | 84 | 13 | 54 | 0.93 | 5.3 | 1.04 | 5.9 | 0.85 | 0.98 |
| | | | | | | | | | | | | | | |
| Uncoated Clear Glass | 5/32 | 4 | 90 | 8 | 8 | 86 | 8 | 78 | 0.93 | 5.3 | 1.04 | 5.9 | 0.88 | 1.01 |
| Pilkington SaniTise™ | 5/32 | 4 | 83 | 15 | 15 | 79 | 11 | 47 | 0.93 | 5.3 | 1.03 | 5.9 | 0.82 | 0.94 |
| | | | | | | | | | | | | | | |
| Uncoated Clear Glass | 1/4 | 6 | 88 | 8 | 8 | 77 | 7 | 63 | 0.93 | 5.3 | 1.03 | 5.8 | 0.82 | 0.94 |
| Pilkington SaniTise™ | 1/4 | 6 | 84 | 13 | 13 | 77 | 10 | 45 | 0.93 | 5.3 | 1.03 | 5.8 | 0.81 | 0.93 |
| | | | | | | | | | | | | | | |
| Uncoated Grey Glass | 1/8 | 3 | 61 | 6 | 6 | 59 | 6 | 35 | 0.94 | 5.3 | 1.04 | 5.9 | 0.69 | 0.80 |
| Pilkington SaniTise™ Grey | 1/8 | 3 | 57 | 9 | 13 | 57 | 8 | 25 | 0.93 | 5.3 | 1.04 | 5.9 | 0.67 | 0.77 |
| | | | | | | | | | | | | | | |
| Uncoated Grey Glass | 5/32 | 4 | 55 | 6 | 6 | 52 | 6 | 30 | 0.93 | 5.3 | 1.04 | 5.9 | 0.65 | 0.75 |
| Pilkington SaniTise™ Grey | 5/32 | 4 | 51 | 8 | 13 | 51 | 7 | 21 | 0.93 | 5.3 | 1.03 | 5.9 | 0.64 | 0.73 |
| | | | | | | | | | | | | | | |
| Uncoated Grey Glass | 1/8 | 6 | 44 | 5 | 5 | 41 | 5 | 21 | 0.92 | 5.2 | 1.02 | 5.8 | 0.58 | 0.66 |
| Pilkington SaniTise™ Grey | 1/8 | 6 | 41 | 7 | 13 | 39 | 6 | 15 | 0.92 | 5.2 | 1.02 | 5.8 | 0.56 | 0.65 |

U-Factor is based on NFRC/ASTM standards.

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

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



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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