

## Anti-Vandalism Films: Data Sheet

# Saint-Gobain Graffitigard™ 4PLUS

### Physical Characteristics

PERFORMANCE	VALUE	METHOD
Number of layers	4	NA
Thickness		ASTM D 3652
Overall	17.4 mil (.017 in)	
Single layer	4.3 mil (.004 in)	
Peel adhesion		ASTM D 3330
Adhesion to glass	5.6 oz/in. (61 N/m)	
Adhesion between layers	1.5 oz/in. (16 N/m)	
Residual adhesive	None	
Haze / Luminous Transmittance		ASTM D 1003
Visible light	92%	
Haze	3.5%	
Clarity	97%	
Abrasion resistance	-1.1 mg / 100 cycles	ASTM D 4060

#### Adhesion

Adhesion is measured by peeling specimens at a 180° angle from the underlying substrate. Peel adhesion is the average result for the strips tested in Newtons per meter. Specimens are applied to substrate using standard application practices. Adhesion to glass and between layers is measured.

#### Scratch Resistance

Scratch resistance is measured testing using the Taber Haze Abraser. Specimens are subjected to 100 cycles with a 1,000 gm weight. Results are expressed by changes in weight loss in mg/# of cycles.

#### Ordering Information for Converter Partners

Product	Graffitigard 4PLUS
Delivery format	Rolls
Roll Width and Length	60 in x 50 to 300 linear feet

#### Storage

Graffitigard 4PLUS should be stored in a dry, controlled environment. The temperature should not exceed 95° F nor go below 50° F. The film should always be stored in the original packaging with the end plugs securely placed on the core.

#### Disclaimer

These test data contain results arrived at after employing specific test procedures and standards. The included data do not constitute a recommendation for, endorsement of, or certification of the product or material tested. These data are provided for informational purposes only and are not to be considered part of merchantability or fitness for a particular purpose, that its products will conform to these test data. Extrapolation of data from the sample or samples relation to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. **Saint-Gobain shall not be responsible for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by persons or under conditions over which Solar Gard has no control.**

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