

# SAINT-GOBAIN SOLAR GARD LLC TEST REPORT

### **SCOPE OF WORK**

JIS Z 2801/ISO 22196:2011 - Measurement of antibacterial activity on plastics and other non-porous surfaces

# PRODUCT:

4mil Antimicrobial Film TL3-AM PET Lot# 5404071

# **REPORT NUMBER**

104448801COL-003

### **ISSUE DATE**

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# **PAGES**

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# **DOCUMENT CONTROL NUMBER**

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### MICROBIOLOGICAL PERFORMANCE TEST REPORT

Client		Saint-Gobain Solar Gard LLC 4540 View ridge Avenue San Diego, CA 92123
Project No.		G104448801
Sample	Product	4mil Antimicrobial Film
	Model	TL3-AM PET Lot# 5404071
	Identification No.	COL2008311016-001
	Date Received	August 31, 2020
	Condition	Good
	<b>Production or Prototype</b>	Production
Procedural	Tested By	Allison Coyle
	Reviewer Nicholas Unger	
	Dates Tested	November 30, 2020 – December 4, 2020
	Report Date	December 16, 2020
Standard	JIS Z 2801/ISO 22196:2011 - Measurement of antibacterial activity on plastics and	
	other non-porous surfaces	

### **Test Parameters:**

Organism	ATCC No	Initial Concentration
Escherichia Coli	8739	5.30x10 <sup>5</sup> cfu/mL
Staphylococcus aureus	6538	9.44x10⁵ cfu/mL

Test Inoculum Volume	Viable E. coli in Inoculum	Viable S. aureus in Inoculum	Polymer Type	Polymer Thickness
0.4 mL	5.30x10 <sup>5</sup> cfu/mL	9.44x10 <sup>5</sup> cfu/mL	Para Film	0.127mm

<b>Test Parameter</b>	Definition of Term	
U <sub>0</sub>	Is the average of the common logarithm of the number of viable bacteria, in cells/cm <sup>2</sup> recovered from the untreated test specimens immediately after inoculation.	
<b>U</b> t	Is the average of the common logarithm of the number of viable bacteria, in cells/cm <sup>2</sup> recovered from the untreated test specimens after 24 h.	
At	Is the average of the common logarithm of the number of viable bacteria, in cells/cm <sup>2</sup> recovered from the treated test specimens after 24 h.	
Antibacterial Activity Value	Is calculated utilizing the following equation: = $(U_{t} - U_{0}) - (A_{t} - U_{0}) = U_{t} - A_{t}$	

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### MICROBIOLOGICAL PERFORMANCE TEST REPORT

# 1. 4mil Antimicrobial Film - TL3-AM PET Lot# 5404071

S. aureus Results		
Test Parameter	Result	
Initial U <sub>0</sub>	5.97	
24 Hr U <sub>t</sub>	3.19	
24 Hr A <sub>t</sub>	1.00	
Antibacterial	2.10	
Activity Value	2.19	
Percent Reduction	99.4%	

E. coli Results		
Test Parameter	Result	
Initial U <sub>0</sub>	5.72	
24 Hr U <sub>t</sub>	4.11	
24 Hr A <sub>t</sub>	1.00	
Antibacterial	2.11	
Activity Value	3.11	
Percent Reduction	99.9%	

**Note**: Antibacterial Activity Values are presented in Log form as per standard requirements. A value of 1.00 would equate to a 90% reduction. A 2 would be 99%, a 3 99.9% and so forth.

Test Performed by:

Allison Cyle
Allison Coyle
Chemist

Columbus Office

Report Approved by:

Nicholas Unger Staff Engineer Columbus Office