



## Solar Control, Safety and Security Window Films

# Solar Gard® Armorcoat® at a Glance

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### **The Department of Energy gets efficient with Solar Gard® Armorcoat® safety and security film**

Tough, resilient Solar Gard Armorcoat safety and security window films are composed of incredibly strong, optical quality polyester, high-grade ultraviolet inhibitors and special laminating and mounting adhesives, with a protective, scratch-resistant coating.

Pressure-sensitive mounting adhesive helps hold glass in place when natural disasters, vandalism, explosions, bomb blasts and other incidents result in glass breakage.

Solar versions of Solar Gard Armorcoat safety films reject up to 80% of the sun's total solar energy to improve occupant comfort, reduce energy consumption, and improve exterior aesthetics, while still affording increased protection.

Both clear safety and solar safety versions block 99% of the sun's destructive ultraviolet rays from entering through windows to provide protection from premature fading and deterioration of furnishings. Solar Gard Armorcoat safety

window films are manufactured in thickness between 2 Mil (50 micron) and 14 Mil (350 micron).

All Solar Gard Armorcoat safety window films are backed by a strong manufacturer's warranty and are easy to clean and maintain.

More than 80,000 square feet of Solar Gard Armorcoat has been installed on government buildings, such as the U.S. Capitol, the Pentagon, the FBI Headquarters and the U.S. Department of Energy (DOE,) reducing energy loss and maintaining comfortable air temperatures for the employees within.

Solar Gard Armorcoat offers you:

- Reduced glare from direct sunlight.
- Reduced energy loss.
- Increased occupant comfort.
- Increased protection from flying glass shards in the event of explosion, severe weather or accidental breakage.



# Testing at a Glance

## Solar Gard® Armorcoat® safety and security films test results

TEST NAME	FILM THICKNESS					
	4-Mil	7-Mil	8-Mil	10-Mil	11-Mil	14-Mil
	100 μ	175 μ	200 μ	250 μ	275 μ	350 μ
ANSI Z 97.1	Class B & C	Class B,C	Class A,B,C	Class A,B,C	Class A,B,C	Class A,B,C
CPSC, CFR 1201	Cat I	Cat. I	Cat. I, II	Cat. I, II	Cat. I, II	Cat. I, II
EN 12600 (6mm)	2-B-2	1-B-1	1-B-1	1-B-1	1-B-1	1-B-1
<b>Blast Mitigation</b>						
GSA Performane Condition-Daylight (SP-A, 4-psi)	3b	3b	3b	3b	NT	3b
GSA Performane Condition-Wet Glaze (SP-A, 4-psi)	NT	3b	3a	NT	NT	NT
GSA Performane Condition-Mechanical (SP-A, 4-psi)	NT	3b	3b	3b	NT	NT
GSA Performane Condition-Mechanical (SP-A, 10-psi)	NT	NT	NT	NT	NT	3a
GSA Performane Condition-Wet Glaze (SP-T, 4-psi)	NT	NT	2	NT	NT	NT
GSA Performane Condition-Wet Glaze (DP-A, 4-psi)	NT	NT	2	NT	NT	NT
GSA Performane Condition-Daylight (DP-A, 4-psi)	NT	3a	NT	NT	NT	NT
GSA Performane Condition-EdgPro (SP-A, 4-psi)	NT	NT	3b	NT	NT	NT
GSA Performane Condition-EdgPro (SP-T, 4-psi)	NT	NT	3b	NT	NT	NT
GSA Performane Condition-Mechanical 2-sided (SP-T, 4-psi)	NT	NT	3b	NT	NT	NT
ISO Hazard Rating-Wet Glaze (DP-A, 7.25-psi (50-kPa))	NT	NT	EXV33-C	NT	NT	NT
ISO Hazard Rating-Wet Glaze (DP-T, 7.25-psi (50-kPa))	NT	NT	EXV33-B	NT	NT	NT
ISO Hazard Rating-EdgPro (DP-T, 7.25-psi (50-kPa))	NT	NT	EXV33-D	NT	NT	NT
ISO Hazard Rating-EdgPro (DP-T, 7.25-psi (50-kPa))	NT	NT	EXV33-C	NT	NT	NT
ISO Hazard Rating-EdgPro (SP-T, 7.25-psi (50-kPa))	NT	NT	EXV33-D	NT	NT	NT
ISO Hazard Rating-Wet Glaze (SP-T, 7.25-psi (50-kPa))	NT	NT	EXV33-C	NT	NT	NT
ASTM Hazard Level-Wet Glaze (DP-A, 4-psi)	NT	NT	No Hazard	NT	NT	NT
ASTM Hazard Level-Wet Glaze (DP-T, 7.25psi)	NT	NT	No Hazard	NT	NT	NT
UFC Level of Protection-Wet Glaze (DP-A, 4-psi)	NT	NT	High Level	NT	NT	NT
UFC Level of Protection-Wet Glaze (DP-T, 7.25psi)	NT	NT	High Level	NT	NT	NT
Burglary Resistance DIN EN 356	NT	NT	P1A	NT	P1A	P2A
NFPA Fire Rating Interior Building Materials ASTM E-84 (Flame and Smoke)	Class A <sup>1</sup>					
<b>Ignition Properties ASTM D-1929</b>						
Flash Ignition (°F)	702	702	702	702	702	702
Flash Ignition (°C)	372	372	372	372	372	372
Self Ignition (°F)	834	834	834	834	834	834
Self Ignition (°C)	445	445	445	445	445	445

<sup>1</sup> = per NFPA 101      SP = Single Pane      DP = Double Pane      T = Tempered      A = Annealed



[www.solargard.com](http://www.solargard.com)

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