

MADICO® SAFETYSHIELD®

SafetyShield 700

Test Data:

Impact:

ANSI Z-97.1	Unlimited
CPSC 16 CFR Part 1201	Category II
EN 12,600	1A

Blast Mitigation:

Attachment System	GSA Performance Condition
4 Side FrameGard®	3A*
2 Side FrameGard®	3B
Day Light (No Attachment)	3B

Subjected to GSA category C blast loads, 4psi 30psi/ms minimum on 1/4" annealed glass. By ABS/EQE International and Grendon Design Agency.

*SafetyShield 700 with 4 side mechanical anchoring receives a performance condition 3A, minimal hazard, when tested to GSA and ISO 16933 blast levels of 4 PSI and 28 PSI/ms. When installed in a day light configuration, SS-700 receives a GSA level 3B and ISO minimal hazard rating at 4 PSI and 28 PSI/ms.

Accelerated Weathering:

CPSC 1200 hours

Puncture Strength:

ASTM 4830	115 lbs.
---------------------	----------

Tear Strength:

ASTM D-2582	29.4 Average Tear Force (Newtons)
-----------------------	-----------------------------------

Surface Burn Characteristics ASTM E-84:

Flame Spread Index	"A" Rating
Smoke Developed Index	"A" Rating

Ignition Properties ASTM-D-1929-96:

Flash Ignition Temp.	760° F
Self-Ignition Temp.	880° F

Properties:

Total Solar Energy:

Transmitted %	81.0
Reflected %	8.0
Absorbed %	11.0

Visible Light:

Transmitted %	89.0
Reflected Exterior %	9.0
Reflected Interior %	9.0
Glare Reduction %	1.0

Solar Heat Gain Coefficient	0.85
Shading Coefficient	0.97
Luminous Efficacy	0.91
Total Solar Energy Rejection %	15.0
Infrared Rejection %*	24.0

U Factor	1.07
Emissivity	0.91
Ultraviolet Rejection %	Exceeds 99.0

Physical Properties:

Film Thickness	0.008"
Structural Component	0.007"
Structure	Single Ply
Adhesive Type	Acrylic Pressure Sensitive
Tensile Strength	32,000 PSI Avg. MD/TD
Break Strength	210 Pounds Per Inch (Width)
Peel Strength	5 to 6 Pounds Per Inch

Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm clear glass.

* Near IR range (780-2500nm)
Technical specification definitions can be found at www.safetyshield.com.



Top: Blast explosion.

Middle: Shock wave breaking untreated window. Glass fragments are blown into the building creating a deadly hazard.

Bottom: Shock wave hitting treated window with SafetyShield film and four-sided attachment system.

WHEREVER THERE IS GLASS, WE CAN *improve* IT.