

MADICO® 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

Reported values are typical properties and should not be used as a specification. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use. If the specific conditions of use are critically dependent on any of the properties of the product, or if you need further information of any sort, contact Madico or your local Madico window film dealer.

Properties:

Optical Properties

Total Solar Energy

Transmitted 83%
 Reflected 9%
 Absorbed 8%

Visible Light

Transmitted 88%
 Reflected Interior 9%
 Reflected Exterior 10%

"U" Factor (winter) 1.10
 Emissivity 0.93
 Ultraviolet Light Rejected 99%

Glare Reduction 0%
 Luminous Efficacy 0.91
 Shading Coefficient 0.97
 Solar Heat Gain Coefficient 0.84
 IR Rejection 18%
 Total Solar Energy Rejected 15%

Physical Properties

Structural Component0.007"
 Total Film Thickness0.008"
 Structure Single Ply
 Tensile Strength 25,000 PSI Average MD/TD
 Break Strength 175 lbs./inch (Width) Avg.
 Adhesive Type Acrylic Pressure Sensitive
 Peel Strength 5 to 6 lbs./inch



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.



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

All information reported to the best of our knowledge. Independent test results available upon request.