

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.*

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.



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