

Data Sheet

SafetyShield 700

SAFETYSHIELD®
BY MADICO



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.

Test Data:

Impact:

ANSI Z-97.1 Unlimited
CPSC 16 CFR Part 1201 Category II
EN 12,600 1B1

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, very low hazard, when tested to GSA blast levels of 4 PSI and 28 PSI/ms. When installed in a day light configuration, SS-700 receives a GSA level 3B low 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:

Visible Light:

Transmitted % 88.0
Reflected Exterior % 9.0
Reflected Interior % 9.0
Glare Reduction % 1.0

Total Solar Energy:

Transmitted % 75.0
Reflected % 7.0
Absorbed % 18.0

Shading Coefficient 0.93
Solar Heat Gain Coefficient 0.81
U Factor 1.05
Ultraviolet Rejection % Exceeds 99.0
Emissivity 0.91
Light to Solar Gain 1.09
Total Solar Energy Rejection % 20.0
Infrared Rejection %*. 32.0
Infrared Energy Rejection % 23.0

Physical Properties:

Film Thickness 0.008"
Structural Component 0.007"
Structure Single Ply
Adhesive Type Acrylic Pressure Sensitive
Long. Tensile Strength 28,000 PSI
Traverse Tensile Strength 36,000 PSI
Break Strength 210 Pounds Per Inch (Width)
Longitudinal Elongation at Break 150%
Traverse Elongation at Break 100%
Yield Strength 14,000 PSI Avg. MD/TD
Elongation at Yield 120%
Peel Strength 5 to 6 Pounds Per Inch

Read in accordance with National Fenestration Rating Council (NFRC) standards on 4mm(0.16") clear glass.

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

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, contact Madico Technical Services.

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