

MADICO® SAFETYSHIELD® 800

Test Data:

Impact

ANSI Z-97.1 Unlimited
 CPSC 16 CFR Part 1201 Category II

Hurricane

ASTM E-1886/E-1996 Large Missile Impact
 Category B

Wind Storm +/-100 psf
Tested on 3/16" tempered patio door with silicone wet glaze attachment to ASTM E-1886/E-1996.

Blast Mitigation

Attachment System *GSA Performance Condition*
 4 Side FrameGard®2*
 2 Side FrameGard2
 4 Side Structural Silicone Bead 3A
 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 800 with 4 side FrameGard received a GSA Category 2 when subjected to 9.19 PSI and 64.53 PSI/ms, and a Category 3B when subjected to 12.78 PSI and 78.79 PSI/ms blast loads. These loads far surpass the GSA criteria of 4 PSI and 28 PSI/ms.*

Accelerated Weathering

Miami/Dade Criteria, 4500 hours
 Xenon Arc Per: ASTM G26-95 Pass

Puncture Strength

ASTM D-4830-88 129 lbs.

Tear Strength

ASTM D-1004 >18 lbf.
 ASTM D-2582 33.016 Average Tear Force (Newtons)

Surface Burn Characteristics: ASTM E-84

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

Ignition Properties: ASTM-D-1926-96

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

Properties:

Optical Properties

Total Solar Energy
 Transmitted83%
 Reflected 9%
 Absorbed 8%

Visible Light

Transmitted88%
 Reflected Interior10%
 Reflected Exterior10%

"U" Factor (winter)1.10
 Ultraviolet Light Rejected99%
 Shading Coefficient0.97
 Solar Heat Gain Coefficient0.84
 Total Solar Energy Rejected15%

Physical Properties

Structural Component0.008"
 Film Thickness0.095"
 Structure Multiply Laminate
 Tensile Strength 32,000 PSI Average MD/TD
 Break Strength 240 lbs./inch (Width) Avg.
 Adhesive Type Acrylic Pressure Sensitive
 Peel Strength 5 to 6 lbs./inch



Top: A category C blast load, 4psi 30psi/ms is detonated.

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 800 and four-sided FrameGard attachment system. Performs to GSA conditions 2.

MADICO®
 Window Films

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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.

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

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