



Architectural Window Film

Data Sheet

SafetyZone™ Interior 4, 7, 8, 12, 15 mil Clear™

Introduction

The SafetyZone range of safety and security window film improves home and workplace security by transforming their most vulnerable feature - windows. Installing the right SafetyZone film can minimize the threat of glass-related injuries resulting from impact, collision, blast or natural disaster.

Typical Usage

- For interior application - In downtown areas or commercial districts where there is a high concentration of glass-fronted buildings or shop windows
- For buildings in the vicinity of potentially explosive sites
- In regions more prone to the threat of natural disaster
- Clear Safety & Security modular films are suitable for application with any Hanita SolarZone interior film, delivering a simple security and solar control combination

Product Construction

Face: 4, 7, 8, 12, 15 mil

Adhesive: Pressure sensitive - Solvent based acrylic

Liner: PET



Certificates

Fire Certificates: DIN EN 13501-1: 2010 B-s1, d0

Safety Certificates:

- 4 mil: EN 12600:2003 3B3, EN 12600:2003 2B2, ANSI Z91.1-1984, CPSC 16 CFR 1201, CPSC 1201 Category I, BS 6206:1981 Class B, ASTM D1929, ASTM E84-98, AS/NZS 2208-1996
- 7 mil: CPSC 16 CFR 1201, EN 12600:2000 1B1, BS 476 Fire propagation, BS 476 Fire propagation, ASTM D1929, AS/NZS 2208-1996
- 8 mil: EN 12600:2003 1B1, ANSI Z91.1-1984, CPSC 16 CFR 1201, Shock Tube Testing: GSA 3A, ASTM F-1642 Minimal Hazard, ISO 16934 ER 30(C), Shock Tube Testing: GSA 3B
- 12 mil: DIN EN 356 P2A
- 15 mil: Shock Tube Testing: GSA 2

Shelf Life and storage conditions:

When stored in original packaging upon arrival at the customer: 2 years.
Recommended Storage conditions are 20 °C (± 2 °C) with 50 %RH (± 5 %).

Key Features

- Large range of different security levels, ranging from 4 mil to 15 mil thickness
- SafetyZone films are consistently distortion-free
- Clear visibility without the a yellowish hue

Film Performance



Warranted Durability in Years:

	Clear 4 mil	Clear 7 mil	Clear 8 mil	Clear 12 mil	Clear 15 mil
Durability	12	12	12	12	12

Mechanical Properties

	Clear 4 mil	Clear 7 mil	Clear 8 mil	Clear 12 mil	Clear 15 mil
Thickness	4 mil	7 mil	8 mil	12 mil	15 mil
Tensile Strength at Break	28,500 PSI	26,000 PSI	28,500 PSI	28,500 PSI	28,500 PSI
Break Strength	112 lb/inch	180 lb/inch	224 lb/inch	336 lb/inch	420 lb/inch
Elongation at Break	125%	140%	125%	125%	140%
Peel Strength	7 lb/inch	7 lb/inch	7 lb/inch	7 lb/inch	8 lb/inch



Hanita Coatings

Optical & Solar Properties

Glazing Unit: Pane Single Clear 3mm	Clear 4 mil	Clear 7 mil	Clear 8 mil	Clear 12 mil	Clear 15 mil
Visible Light Transmitted %	89	88	88	87	87
Visible Light Reflected - Interior %	10	11	11	11	11
Visible Light Reflected - Exterior %	10	11	11	11	11
UV Block %	97	99	99	99	99
Total Solar Energy Reflected %	9	9	9	10	11
Total Solar Energy Transmitted %	81	80	80	78	77
Total Solar Energy Absorbed %	10	11	11	12	12
Emissivity (Room Side)	-	-	-	-	-
Glare Reduction %	1	2	2	3	3
Selective InfraRed Reduction %	22	21	22	23	22
InfraRed Energy Reduction %	18	18	18	19	19
Shading Coefficient	0.96	0.95	0.95	0.94	0.94
Solar Heat Gain Coefficient (G-Value)	0.84	0.83	0.83	0.82	0.82
U-Value Winter (IP)	1.07	1.07	1.07	1.07	1.07
U-Value Winter (SI)	6.07	6.07	6.07	6.07	6.07
Luminous Efficacy	0.93	0.93	0.93	0.93	0.93
Total Solar Energy Rejected	16	17	17	18	18



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