



## **Architectural Window Film**

### Data Sheet

### **SafetyZone™ SolarZone™ Interior** **6, 10 mil PerLite™ 35, 50**

#### Introduction

SolarZone Safe films combine the shard protection of SafetyZone security films with high levels of energy efficiency for a significant return on investment. Go beyond passive glazing protection. Install Hanita's security laminates with their outstanding solar control properties and contribute to energy efficiency by reducing unwelcome heat buildup.

#### Typical Usage

- Interior applications where the need for safety and solar control are required
- 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 prone to the threat of natural disaster

#### Product Construction

Face: 6, 10 mil

Adhesive: Pressure sensitive permanent - solvent based acrylic

Liner: PET

#### 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

- PerLite ceramic based, neutral gray security films combine relatively low reflectance with excellent solar energy rejection
- Cutting heat gain and glare, saving on HVAC costs
- While providing protection from shattered glass

## Film Performance

Warranted Durability in Years:

	PerLite 35, 6 mil	PerLite 50, 6 mil	PerLite 35, 10 mil	PerLite 50, 10 mil
Durability	12	12	12	12

## Mechanical Properties

	PerLite 35, 6 mil	PerLite 50, 6 mil	PerLite 35, 10 mil	PerLite 50, 10 mil
Thickness	6 mil	6 mil	10 mil	10 mil
Tensile Strength at Break	28,500 PSI	28,500 PSI	28,500 PSI	28,500 PSI
Break Strength	145 lb/inch	145 lb/inch	270 lb/inch	245 lb/inch
Elongation at Break	125%	125%	125%	125%
Peel Strength	7 lb/inch	7 lb/inch	7 lb/inch	7 lb/inch



## Optical &amp; Solar Properties

Glazing Unit: Pane Single Clear 3mm	PerLite 35, 6 mil	PerLite 50, 6 mil	PerLite 35, 10 mil	PerLite 50, 10 mil
Visible Light Transmitted %	40	52	40	52
Visible Light Reflected - Interior %	16	16	17	16
Visible Light Reflected - Exterior %	18	17	17	16
UV Block %	99	99	99	99
Total Solar Energy Reflected %	19	18	18	17
Total Solar Energy Transmitted %	29	42	30	43
Total Solar Energy Absorbed %	52	40	52	40
Emissivity (Room Side)	0.90	0.90	0.91	0.92
Glare Reduction %	56	42	55	42
Selective InfraRed Reduction %	78	65	77	62
InfraRed Energy Reduction %	60	51	59	48
Shading Coefficient	0.52	0.62	0.53	0.64
Solar Heat Gain Coefficient (G-Value)	0.44	0.53	0.46	0.55
U-Value Winter (IP)	1.07	1.07	1.08	1.08
U-Value Winter (SI)	6.08	6.08	6.13	6.13
Luminous Efficacy	0.77	0.85	0.76	0.84
Total Solar Energy Rejected	56	47	54	45



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