

# PRODUCT DATA SHEET

## Avery Dennison® Interior Clear Safety Films

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Revision: 4

### Introduction

Avery Dennison **SF Clear** window films feature exceptional clarity, low reflectance and high levels of UV protection. A full range of film thicknesses from 4-12 mil ensure the appropriate solution for different threats and hazards.

### Description

**Color:** Transparent  
**Technology:** Advanced PS adhesive system

**Face:**

- SF Clear 4 mil i**
- SF Clear 7 mil i**
- SF Clear 8 mil i**
- SF Clear 12 mil i**

**Adhesive:** Solvent based acrylic pressure sensitive  
**Liner:** PET  
**Warranted Durability<sup>1</sup>:** 12 years

### Features:

- **Increased protection from glass** shattered by impact, blast, crime or natural disaster
- **Substrate compatibility** with glass or mirrors
- **Superb optical clarity** for no compromise vision

### Common Applications:

Film can handle some blast effect on its own, but upgrading film with advanced security systems provides the best answer to blast protection:

- Hospitals, Banks, Shopping Malls
- Public Buildings
- Residential Buildings

#### 1) Warranted Durability

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased. With regard to Avery Dennison Architectural Window Film Products, the durability shall no differ between the climatic zones, but the same durability shall apply to all climatic zones.

## PRODUCT CHARACTERISTICS

## Avery Dennison® Interior Clear Safety Films

### Mechanical Properties

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

### Optical & Solar Properties:

	SF Clear 4 mil i	SF Clear 7 mil i	SF Clear 8 mil i	SF Clear 12 mil i
Visible Light Transmitted %	89	88	88	87
Visible Light Reflected (Int) %	10	11	11	11
Visible Light Reflected (Ext) %	10	11	11	11
U V Block %	97	99	99	99
Total Solar Energy Reflected %	9	9	9	10
Total Solar Energy Transmitted %	81	80	80	78
Total Solar Energy Absorbed %	10	11	11	12
Shading Coefficient	0,96	0,95	0,95	0,94
Total Solar Energy Rejected %	16	17	17	18
Solar Heat Gain Coefficient	0,84	0,83	0,83	0,82
U-Value Winter	1,07	1,07	1,07	1,07
K-Value Winter	6,07	6,07	6,07	6,07
Glare Reduction %	1	2	2	3

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### Certification:

		SF Clear 4 mil i	SF Clear 7 mil i	SF Clear 8 mil i	SF Clear 12 mil i
Fire Certification	DIN EN 13501-1	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0
Impact on filmed Glass side	EN 12600	2B2	2B2	1B1	
Impact	BS6206	class B			
Impact	DIN EN 356				P2A
Bomb Blast	GSA Level C			3B	

### Important

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use. All technical data are subject to change without notice.

### Warranty

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>