

# PRODUCT DATA SHEET

## Avery Dennison® Exterior Clear Safety Films

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Revision: 4

### Introduction

Avery Dennison SF Clear X window films feature exceptional clarity, low reflectance and high levels of UV protection.

### Description

**Color:** Transparent  
**Technology:** Exterior durable SR hard coat advanced PS adhesive system

**Face:**  
**SF Clear 4 mil X**, translucent PET  
**SF Clear 7 mil X**, translucent PET

**Adhesive:** Pressure sensitive **Permanent** – Solvent based acrylic  
**Liner:** PET

**Warranted Durability<sup>1</sup>:** 5 years (vertical) and 3 years (horizontal/sloped)

### Features:

- **Substrate compatibility** with glass or mirrors
- **Superb optical clarity** for no compromise vision
- **Forced entry, break-in protection**

### 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® Exterior Clear Safety Films

### Mechanical Properties:

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

### Optical & Solar Properties:

	SF Clear 4 mil X Single Pane	SF Clear 7 mil X Single Pane
Visible Light Transmitted %	88	88
Visible Light Reflected (Int) %	10	11
Visible Light Reflected (Ext) %	10	11
U V Block %	99	99
Total Solar Energy Reflected %	10	9
Total Solar Energy Transmitted %	80	80
Total Solar Energy Absorbed %	10	11
Shading Coefficient	0,96	0,95
Total Solar Energy Rejected %	17	17
Solar Heat Gain Coefficient	0,83	0,83
U-Value Winter	1,04	1,04
K-Value Winter	5,91	5,91
Glare Reduction %	2	2

### Certification:

Fire Certification	DIN EN 13501-1	B-s1, d0	B-s1, d0
Impact	EN 12600	2B2	1B1

### 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

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