

PRODUCT DATA SHEET

Avery Dennison® Interior Clear Safety Films

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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. **An EC (Economy) version is available for the 4 mil product featuring good clarity.**

Conversion

For conversion information please review the Technical Bulletin "Avery Dennison® Interior Safety Films Installation Guide".

Recommendations

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

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

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 not differ between the climatic zones, but the same durability shall apply to all climatic zones.



Face Film

SF Clear 4 mil i EC, 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



Backing

PET



Durability

12 years¹⁾



Shelf Life

2 years stored in original packaging at 20 °C (± 2 °C) with 50 %RH (± 5%).

Physical Characteristics

Mechanical Properties

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

Optical & Solar Properties:

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

Certification:

		SF Clear 4 mil i EC	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 and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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.

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