

# PRODUCT DATA SHEET

## Avery Dennison® Poly Films

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Revision: 4

### Introduction

The **Poly range** is engineered to extend the substrate lifetime, and enhance its performance. A novel adhesive formulation ensures compatibility with plastic substrates and enables clean removal whole exceptional hard coats deliver improved functionality, excellent outdoor resistance and an extended lifetime.

### Description

**Technology:** Exterior durable SR hard coat Vacuum metal deposition, optical thin Aluminum layer special PS adhesive developed for rigid plastic substrates

**Face:**

**Poly Clear 4 mil i**  
**Poly Clear 4 mil X**  
**Poly Clear 6 mil X**

**Adhesive:** Solvent based acrylic pressure sensitive for rigid plastic substrate  
**Liner:** PET

### Warranted

**Durability<sup>1</sup>:** Poly Clear 4 mil i    Poly Clear 4 mil X    Poly Clear 6 mil X

Vertical                    5 years                    4 years                    4 years

Horizontal/  
Sloped                    5 years                    3 years                    3 years

**Fire Certification:** B-s1, d0 (DIN EN 13501-1)

### Common Applications:

Protecting polycarbonate and PMMA from graffiti, vandalism and everyday wear and tear. Poly Clear films provide the ideal solution for plastic glazing applications in busy areas:

- Bus/transport shelters
- Walkways
- Acoustic barriers
- Stadiums
- Train windows

#### 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® Poly Films

### Mechanical Properties:

	Poly Clear 4 mil i	Poly Clear 4 mil X	Poly Clear 6 mil X
Thickness	4 mil	4 mil	6 mil
Tensile Strength at Break	28,500 PSI	28,500 PSI	28,000 PSI
Break Strength	112 lb/inch	112 lb/inch	125 lb/inch
Elongation at Break	125%	125%	150%
Peel Strength	1-2 lb/inch	1-2 lb/inch	1-2 lb/inch

### Optical & Solar Properties:

	Poly Clear 4 mil i	Poly Clear 4 mil X	Poly Clear 6 mil X
	Single Pane	Single Pane	Single Pane
Visible Light Transmitted %	88	88	88
Visible Light Reflected (Int) %	13	10	10
Visible Light Reflected (Ext) %	12	10	10
U V Block %	99	99	99
Total Solar Energy Reflected %	11	10	9
Total Solar Energy Transmitted %	80	80	80
Total Solar Energy Absorbed %	9	10	11
Shading Coefficient	0,95	0,96	0,95
Total Solar Energy Rejected %	18	17	18
Solar Heat Gain Coefficient	0,82	0,83	0,82
U-Value Winter	1,03	1,04	1,07
K-Value Winter	5,85	5,91	6,05
Glare Reduction %	2	2	2

#### 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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