

PRODUCT DATA SHEET

Avery Dennison® Poly Films

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Introduction

Avery Dennison® 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 while exceptional hard coats deliver improved functionality, excellent outdoor resistance and an extended lifetime.

Conversion

For conversion information please review the Technical Bulletin "Avery Dennison® Poly Films".

Recommendations

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

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

Features

- » UV Block
- » Protects skin
- » Inhibits fading
- » Anti-graffiti
- » Protects surface
- » Clean and easy removal Anti-graffiti



Face Film

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



Backing

PET



Durability

See below



Shelf Life

When stored in original packaging upon arrival at the customer: 2 years. Recommended Storage conditions are 20 °C (± 2 °C) with 50 %RH (± 5%).

Physical Characteristics

Warranted Durability¹⁾:

	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)

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

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.

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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