

# PRODUCT DATA SHEET

## Avery Dennison® Exterior Solar Spectral Selective Films

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### Introduction

Avery Dennison® SP e-Lite window films effectively reduce solar heat gain while retaining high level of daylight and preserving the natural appearance of the glass.

Avery Dennison® OptiLite, the subtle blue tint filters 88% of the heat-building IR radiation to keep the building cooler without blocking welcome daylight.

### Conversion

For conversion information please review the Technical Bulletin “Avery Dennison® Solar Window Films Exterior”.

### Recommendations

These films are an excellent heat rejection upgrade, preserving the natural appearance of a building’s interior and exterior, and are often used for historical buildings. They are available in three different light transmission levels.

### Features

- » High visible light transmission that is barely discernible on glass; high levels of natural daylight
- » High heat rejection for enhanced comfort and reduced cooling cost
- » Low reflectivity preserves view night and day
- » 99.99% UV Block cuts fading and sun damage

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

<b>Warranted Durability<sup>1)</sup>:</b>	SP e-Lite 45 X	SP e-Lite 70 X	OptiLite 75 X
Vertical	7 years	7 years	5 years
Horizontal/Sloped	3 years	3 years	3 years

#### 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

Exterior durable SR hard coat sputtered optical filter + Nanotechnology

SP e-Lite 45 X; SP e-Lite 70 X; OptiLite 75 X



#### Adhesive

Pressure sensitive **Permanent** – Solvent based acrylic



#### 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

### Optical & Solar Properties

	SP e-Lite 45 X		SP e-Lite 70 X		OptiLite 75 X	
	Single Pane	Double Pane	Single Pane	Double Pane	Single Pane	Double Pane
Visible Light Transmitted %	47	43	67	61	76	69
Visible Light Reflected (Int) %	12	19	17	23	9	17
Visible Light Reflected (Ext) %	17	19	18	22	9	15
U V Block %	99,9	99,9	99,9	99,9	99	99
Total Solar Energy Reflected %	30	31	30	31	8	10
Total Solar Energy Transmitted %	27	23	37	33	39	34
Total Solar Energy Absorbed %	43	46	33	36	53	56
Shading Coefficient	0,45	0,36	0,54	0,45	0,62	0,50
Total Solar Energy Rejected %	61	69	53	61	46	57
Solar Heat Gain Coefficient	0,39	0,31	0,47	0,39	0,54	0,43
Emissivity (Room side)	0,84	0,84	0,84	0,84	0,84	0,84
U-Value Winter	1,04	0,48	1,04	0,48	1,04	0,48
K-Value Winter	5,92	2,73	5,92	2,73	5,91	2,73
Glare Reduction %	48	47	25	24	16	15
Luminous Efficacy	1,04	1,19	1,24	1,36	1,20	1,38

### 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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