# **PRODUCT DATA SHEET**

# Avery Dennison<sup>®</sup> Exterior Spectral Selective Solar Films

Issued: 10/2021

### Introduction

Avery Dennison® SS Natural window films effectively reduce solar heat gain while retaining high level of daylight and preserving the natural appearance of the glass.

Avery Dennison®SS Blue, 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)

Warranted Durability <sup>1)</sup> :	SS Natural 45X	SS Natural 70X	SS Blue 75X
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

SS Natural 45X; SS Natural 70X; SS Blue 75X



#### 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**

-	SS Natural 45X		SS Natural 70X		SS Blue 75X	
	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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