

# PRODUCT DATA SHEET

## Avery Dennison® Interior Spectrally Selective Solar Films

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### Introduction

The Avery Dennison® SS Natural range of spectrally selective interior films deliver excellent levels of heat rejection, whilst preserving the natural appearance of both the glass and the building exterior. The films' neutral color features low visible reflection inside and out, but still delivers an effective energy saving upgrade, with outstanding ROI.

### Conversion

For conversion information please review the Technical Bulletin "AD Solar Window Films Interior".

### Recommendations

The Avery Dennison® SS Natural i Film Series is designed for interior applications. Nanotechnology is used to filter undesired infrared radiation while allowing visible light to pass through and maintaining colour stability (hence the name 'spectrally selective').

### 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)

### <sup>1)</sup> 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

SS Natural 45i; SS Natural 70i



#### Adhesive

Pressure sensitive Permanent – Solvent based acrylic



#### Backing

PET



#### Durability

10 years<sup>1)</sup>



#### 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 45i		SS Natural 70i	
	Single Pane	Double Pane	Single Pane	Double Pane
Visible Light Transmitted %	44	40	66	61
Visible Light Reflected (Int) %	12	14	15	19
Visible Light Reflected (Ext) %	17	23	16	21
U V Block %	99	99	99	99
Total Solar Energy Reflected %	24	26	23	25
Total Solar Energy Transmitted %	26	23	36	33
Total Solar Energy Absorbed %	50	51	41	42
Shading Coefficient	0,47	0,58	0,55	0,64
Total Solar Energy Rejected %	59	49	52	44
Solar Heat Gain Coefficient	0,41	0,51	0,48	0,56
Emissivity (Room side)	0,83	0,83	0,73	0,73
U-Value Winter	1,04	0,48	0,98	0,46
K-Value Winter	5,88	2,72	5,59	2,64
Glare Reduction %	51	50	27	25
Luminous Efficacy	0,94	0,69	1,20	0,95

### 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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