

PRODUCT DATA SHEET

Avery Dennison® Exterior Spectral Selective Solar Films

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Revision: 1

Introduction

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

SS Blue, the subtle blue tint filters 88% of the heat-building IR radiation to keep the building cooler without blocking welcome daylight.

Description

Technology: Exterior durable SR hard coat sputtered optical filter + Nanotechnology

Face:

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

Adhesive: Pressure sensitive **Permanent** – Solvent based acrylic

Liner: PET

Durability¹: SS Natural 45X SS Natural 70X SS Blue 75X

Vertical 7 years 7 years 5 years

Horizontal/
Sloped 3 years 3 years 3 years

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

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

Common Applications:

Exceptional products for exterior installation. Ideal for installation on virtually all glazing types.

PRODUCT CHARACTERISTICS Avery Dennison® Exterior Spectral Selective Solar Films

Optical & Solar Properties:

	SS Natural 45X		SS Natural 70X		SS Blue 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	19	9	17
Visible Light Reflected (Ext) %	17	19	18	22	9	15
U V Block %	99	99	99	99	99	99
Total Solar Energy Reflected %	30	31	30	24	8	10
Total Solar Energy Transmitted %	27	23	37	32	39	34
Total Solar Energy Absorbed %	43	46	33	44	53	56
Shading Coefficient	0,45	0,36	0,54	0,62	0,62	0,50
Total Solar Energy Rejected %	61	69	53	46	46	57
Solar Heat Gain Coefficient	0,39	0,31	0,47	0,54	0,54	0,43
Emissivity (Room side)	0,84	0,84	0,84	0,73	0,84	0,84
U-Value Winter	1,04	0,48	1,04	0,46	1,04	0,48
K-Value Winter	5,92	2,73	5,92	2,64	5,91	2,73
Glare Reduction %	48	47	25,19	25,9	16	15
Luminous Efficacy	1,04	1,19	1,24	0,98	1,23	1,38

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

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>

1) 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.