

# PRODUCT DATA SHEET

## Avery Dennison® Interior Reflective Solar Films

Issued: 10/2021

### Introduction

The Avery Dennison® R Silver films provide maximum energy efficiency and value. By rejecting excess solar radiation, Avery Dennison® R Silver films cut heat build-up through the glazing.

### Conversion

For conversion information please review the Technical Bulletin “AD Interior Solar Films Interior”.

### Recommendations

Avery Dennison® R Silver films are the most popular choice for commercial projects with their strong visual statement, effective heat rejection, and the quickest return on investment.

### Features

- » Excellent solar heat and glare rejection
- » Upgraded building appearance
- » Daytime privacy
- » 99+% UV block

**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

R Silver 20 i; R Silver 35 i; R Silver 50 i metallization by sputtering



#### Adhesive

Pressure sensitive Permanent – Solvent based acrylic



#### Backing

PET



#### Durability

12 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:

	R Silver 20 i		R Silver 35 i		R Silver 50 i	
	Single Pane	Double Pane	Single Pane	Double Pane	Single Pane	Double Pane
Visible Light Transmitted %	18	17	33	31	51	46
Visible Light Reflected (Int) %	62	62	41	42	23	25
Visible Light Reflected (Ext) %	61	61	42	44	24	29
U V Block %	99	99	99	99	97	98
Total Solar Energy Reflected %	55	49	39	37	24	25
Total Solar Energy Transmitted %	13	12	25	22	39	34
Total Solar Energy Absorbed %	32	38	36	41	37	41
Shading Coefficient	0,25	0,35	0,40	0,49	0,58	0,63
Total Solar Energy Rejected %	78	70	65	58	50	45
Solar Heat Gain Coefficient	0,22	0,30	0,35	0,42	0,50	0,55
Emissivity (Room side)	0,71	0,71	0,72	0,72	0,81	0,81
U-Value Winter	0,97	0,46	0,98	0,46	1,02	0,47
K-Value Winter	5,51	2,62	5,57	2,63	5,78	2,70
Glare Reduction %	80	79	63	62	44	43
Luminous Efficacy	0,72	0,49	0,86	0,64	0,87	0,73

### 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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