

# PRODUCT DATA SHEET

## Avery Dennison® Interior Spectrally Selective Solar Films

Issued: 02/2019  
Revision: 4

### Introduction

The **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.

### Description

**Technology:** Sputtered optical filter + Nanotechnology

**Face:**  
**SS Natural 45i**  
**SS Natural 70i**

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

**Warranted Durability**<sup>1</sup>: 10 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

#### 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.

**PRODUCT CHARACTERISTICS Avery Dennison® Interior Spectrally Selective Solar Films**

**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 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>