

# PRODUCT DATA SHEET

## Avery Dennison® R Silver 20 XTRM PRO

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### Introduction

Avery Dennison® R Silver 20 XTRM PRO is our new generation of long service life exterior window films. It is based on a new UV-durable surface coating along with a robust scratch-resistant hardcoat, extending the product's longevity in harsh outdoor conditions. It's exceptional durability ensures long-term energy efficient performance. The films provide maximum energy efficiency and value. Avery Dennison® R Silver 20 XTRM PRO delivers outstanding levels of heat rejection, UV block and is compatible with nearly all types of glazing.



#### Face Film

R Silver 20 XTRM PRO



#### Adhesive

Pressure sensitive Permanent – Solvent based acrylic



#### Backing

PET



#### Durability

See below

### Conversion

For conversion information of the Avery Dennison® R Silver 20 XTRM PRO please review “Avery Dennison® Technical Bulletin XTRM PRO vertical”.



#### 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%).

Avery Dennison® R Silver 20 XTRM PRO requires a neutral silicone edge sealant for external use (such as Dow Corning 995 or 885, GE Max 5000, or an equivalent neutral silicone sealing agent for external application or any other Avery Dennison® approved neutral sealant) on all four sides of the film.

For details and approval please contact your local Avery Dennison® sales team.

### Recommendations

Avery Dennison® R Silver 20 XTRM PRO films is developed to tackle commercial projects.

Avery Dennison® R Silver 20 XTRM PRO's long service life exterior films offer the ideal solution for reducing heat build-up – and energy bills – over the long term. With a prolonged service life, you gain greater savings for longer.

### Features

Enhanced durability - long-term warranty (including hot & humid areas) supported by exceptional anti-corrosion metal alloy and UV-durable coating.

- » Vertical application - Avery Dennison® R Silver 20 XTRM PRO for exterior application to vertical architectural glass
- » Enhanced durability - long-term warranty (including hot & humid areas) with exceptional UV - durable coating.
- » Optical quality - High clarity with reflected/transmitted light.
- » Easy to install - no XTRM certification required
- » Edge Sealing - Edge Sealing with approved neutral silicone is required (For details check Avery Dennison Technical Bulletin XTRM PRO vertical)

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

## Physical Characteristics

### Warranted Durability <sup>1</sup> R Silver 20 XTRM PRO

Vertical	up to 15
Horizontal / Sloped	5

More information can be found in the ICS Performance Guarantee documentation.

### Optical and Solar properties R Silver 20 XTRM PRO

	Single Pane	Double Pane
Visible Light Transmitted %	15	14
Visible Light Reflected (Int) %	63	65
Visible Light Reflected (Ext) %	63	65
UV Block %	99.9	99.9
Total Solar Energy Reflected %	64	66
Total Solar Energy Transmitted %	11	10
Total Solar Energy Absorbed %	25	24
Emissivity (Room side)	0.84	0.84
Glare Reduction %	84	83
Shading Coefficient	0.20	0.16
Solar Heat Gain Coefficient	0.17	0.14
U-Value Winter (IP)	1.04	0.48
U-Value Winter (SI)	5.91	2.73
Luminous Efficacy	0.75	0.88
Total Solar Energy Rejected %	83	86
Selective InfraRed Reduction %	91	
InfraRed Energy Reduction %	84	

1) Warranted Durability: The warranty mentioned above is limited to installation locations of latitude Above 40°N. 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.

## 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.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

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