# PRODUCT DATA SHEET

# **Avery Dennison® XTRM Exterior Reflective Solar**Films

Issued: 04/2023

## Introduction

Avery Dennison® R Silver XTRM™ and the Avery Dennison® R SkyLite XTRM™ series is a new generation of extended life exterior window films. It's exceptional durability ensures long-term energy efficient performance. The films provide maximum energy efficiency and value. By rejecting excess solar radiation, Avery Dennison® R Silver XTRM™ and the Avery Dennison® R SkyLite XTRM™ films cut heat buildup through the glazing. The films are particularly energy efficient on insulated glass (IGU), rejecting solar energy on the outer pane, keeping the inner pane cool. Avery Dennison® R SkyLite 20 XTRM™ Poly is engineered with an adhesive formulation to ensure compatibility with plastic substrates.



#### Face Film

R Silver 20 XTRM<sup>™</sup>; R Silver 35 XTRM<sup>™</sup>; R SkyLite 20 XTRM<sup>™</sup> + Removable protective masking layer; R SkyLite 20 XTRM<sup>™</sup> Poly + Removable protective masking layer



#### Adhesive

Pressure sensitive Permanent – Solvent based acrylic



#### Backing

PET



# Durability

See below

#### Conversion

Recommendations

These products are available for certified installers only.

Avery Dennison® R Silver XTRM™ films are developed



#### **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%).

# **Features**

- » Warranted durability: Increased lifetime for the best long-term service period
- » Highest level of energy efficiency
- » Excellent solar heat and glare rejection
- » Upgraded building appearance
- » 99+% UV block

#### **Fire Certification:**

B-s1, d0 (DIN EN 13501-1)

**Warranted** R Silver R Silver R SkyLite R SkyLite Durability<sup>1)</sup>:

to tackle commercial projects, where a long-term service period is critical to payback. Additionally, the Avery Dennison® R SkyLite XTRM™ films are further developed to be applied on horizontal glazing systems.

20 XTRM™ 35 XTRM™ 20 XTRM™ 20 XTRM™ Poly

Vertical up to 15 years 10 years -

Horizontal/Sloped 5 years 5 years up to 10 years 10 years

1) Warranted Durability



Graphics Solutions 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.

# **Physical Characteristics**

## **Optical & Solar Properties:**

20 XTRM™   20 XTRM™   20 XTRM™   20 XTRM™   20 XTRM™   Poly		R Silver 20 XTRM™		R Silver		R SkyLite		R SkyLite
Visible Light Transmitted %         15         14         33         31         15         14         15           Visible Light Reflected (Int) %         63         65         42         44         63         65         63           Visible Light Reflected (Ext) %         63         65         42         43         66         66         66           U V Block %         99,9         99,9         99,9         99,9         99,9         99,9         99,9           Total Solar Energy Reflected %         66         45         46         64         66         64				35 XTRM™		20 XTRM™		
Transmitted %         Visible Light Reflected (Int) %       63       65       42       44       63       65       63         Visible Light Reflected (Ext) %       63       65       42       43       66       66       66         U V Block %       99,9       99,9       99,9       99,9       99,9       99,9       99,9         Total Solar Energy Reflected %       64       66       45       46       64       66       64		Single Pane		Single Pane		Single Pane		Single Pane
Reflected (Int) %         Visible Light 63 Reflected (Ext) %       65       42       43       66       66       66         U V Block %       99,9       99,9       99,9       99,9       99,9       99,9       99,9         Total Solar Energy 64       66       45       46       64       66       64         Reflected %		15	14	33	31	15	14	15
Reflected (Ext) % U V Block % 99,9 99,9 99,9 99,9 99,9 99,9 99,9 Total Solar Energy 64 66 45 46 64 66 64 Reflected %	•	63	65	42	44	63	65	63
Total Solar Energy 64 66 45 46 64 66 64 Reflected %	•	63	65	42	43	66	66	66
Reflected %	U V Block %	99,9	99,9	99,9	99,9	99,9	99,9	99,9
		64	66	45	46	64	66	64
Total Solar Energy 11 10 25 22 10 10 10 Transmitted %	Total Solar Energy Transmitted %	11	10	25	22	10	10	10
Total Solar Energy 25 24 30 32 26 24 26 Absorbed %		25	24	30	32	26	24	26
Emissivity (Room 0,84 0,84 0,84 0,84 0,84 0,84 0,84 side)		0,84	0,84	0,84	0,84	0,84	0,84	0,84
Glare Reduction 84 83 63 62 84 83 84 %		84	83	63	62	84	83	84
Shading 0,2 0,16 0,39 0,32 0,20 0,16 0,20 Coefficient		0,2	0,16	0,39	0,32	0,20	0,16	0,20
Solar Heat Gain 0,17 014 0,34 0,28 0,17 0,14 0,17 Coefficient		0,17	014	0,34	0,28	0,17	0,14	0,17
U-Value Winter 1,04 0,48 1,04 0,48 1,03 0,48 1,03	U-Value Winter	1,04	0,48	1,04	0,48	1,03	0,48	1,03
K-Value Winter 5,91 2,73 5,91 2,73 5,85 2,71 5,85	K-Value Winter	5,91	2,73	5,91	2,73	5,85	2,71	5,85
Luminous Efficacy 0,75 0,88 0,84 0,96 0,72 0,89 0,72	Luminous Efficacy	0,75	0,88	0,84	0,96	0,72	0,89	0,72
Total Solar Energy 83 86 66 72 83 86 83 Rejected %		83	86	66	72	83	86	83

# **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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