PRODUCT DATA SHEET

Avery Dennison® XTRM Exterior Reflective Solar Films

Issued: 10/2021

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™; R Silver 35 XTRM™; R SkyLite 20 XTRM™ + Removable protective masking layer; R SkyLite 20 XTRM™ Poly + Removable protective masking layer

Adhesive
Pressure sensitive Permanent – Solvent based acrylic

Backing
PET

Durability
See below

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%).

Conversion

These products are available for certified installers only.

Recommendations

Avery Dennison® R Silver XTRM™ films are developed 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.

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 Durability[1]:	R Silver 20 XTRM™	R Silver 35 XTRM™	R SkyLite 20 XTRM™	R SkyLite 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

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:

	R Silver 20 XTRM™		**R Silver 35 XTRM™**		**R SkyLite 20 XTRM™**		**R SkyLite 20 XTRM™ Poly**
	Single Pane	Double Pane	Single Pane	Double Pane	Single Pane	Double Pane	Single Pane
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 %	64	66	45	46	64	66	64
Total Solar Energy Transmitted %	11	10	25	22	10	10	10
Total Solar Energy Absorbed %	25	24	30	32	26	24	26
Shading Coefficient	0,84	0,84	0,84	0,84	0,84	0,84	0,84
Total Solar Energy Rejected %	84	83	63	62	84	83	84
Solar Heat Gain Coefficient	0,2	0,16	0,39	0,32	0,20	0,16	0,20
Emissivity (Room side)	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
K-Value Winter	5,91	2,73	5,91	2,73	5,85	2,71	5,85
Glare Reduction %	0,75	0,88	0,84	0,96	0,72	0,89	0,72
Luminous Efficacy	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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