PRODUCT DATA SHEET

Avery Dennison® XTRM™ Exterior Reflective Solar Films

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Introduction

The **R Silver XTRM™** and the **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, R Silver XTRM™ and the 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. R SkyLite 20 XTRM™ Poly is engineered with an adhesive formulation to ensure compatibility with plastic substrates.

Description

Color: Silver

Technology: **R Silver XTRM™ series:**
Exterior durable SR hard coat vacuum metal deposition, with a thin optical Aluminum layer + XTRM technology based on durable polymeric film and SR hardcoat

R Skylite XTRM™ series:
Exterior durable vacuum metal deposition, with a thin optical Aluminum layer + XTRM technology based on durable polymeric film

Face: **R Silver 20 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

Liner: PET

Warranted Durability[1]:	R Silver 20 XTRM™	R SkyLite 20 XTRM™	R SkyLite 20 XTRM™ Poly
Vertical	up to 15 years	-	-
Horizontal/ Sloped	5 years	up to 10 years	10 years

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

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**

Common Applications:

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

PRODUCT CHARACTERISTICS **Avery Dennison® XTRM™ Reflective Solar Films**

Optical & Solar Properties:

	R Silver 20 XTRM™		R SkyLite 20 XTRM™		R SkyLite 20 XTRM™ Poly
	Single Pane	Double Pane	Single Pane	Double Pane	Single Pane
Visible Light Transmitted %	15	14	15	14	15
Visible Light Reflected (Int) %	63	65	63	65	63
Visible Light Reflected (Ext) %	63	65	66	66	66
U V Block %	99,9	99,9	99,9	99,9	99,9
Total Solar Energy Reflected %	64	66	64	66	64
Total Solar Energy Transmitted %	11	10	10	10	10
Total Solar Energy Absorbed %	25	24	26	24	26
Emissivity (Room side)	0,84	0,84	0,84	0,84	0,84
Glare Reduction %	84	83	84	83	84
Selective InfraRed Reduction (SIRR)%	91	91	91	92	92
InfraRed Energy Rejection (IRER) %	84	84	85	85	85
Shading Coefficient	0,2	0,16	0,2	0,16	0,2
Solar Heat Gain Coefficient	0,17	0,14	0,17	0,14	0,17
U-Value Winter	1,04	0,48	1,03	0,48	1,03
K-Value Winter	5,91	2,73	5,85	2,71	5,85
Luminous Efficacy	0,75	88	0,72	0,89	0,72
Total Solar Energy Rejected %	83	86	83	86	83

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

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 no differ between the climatic zones, but the same durability shall apply to all climatic zones.