

# PRODUCT DATA SHEET

**Avery Dennison® XTRM™ Exterior Dual Reflective Solar Films** Issued: 08/2019  
Revision: 0

## Introduction

**DR Grey XTRM™** films combine a high performance, high privacy exterior with a low reflective interior appearance. The films exceptional durability ensures long-term energy efficient performance. This ensures maximum heat rejection, energy efficiency and privacy, with the advantage of clear views out day and night, and pleasant indoor ambiance.

## Description

**Color:** in: neutral black-grey; out: silver reflective  
**Technology:** Vacuum metal deposition + Nanotechnology  
XTRM™ technology based on durable polymers  
**Face:**  
**DR Grey 20 XTRM™**  
**Adhesive:** Pressure sensitive **Permanent** – Solvent based acrylic  
**Liner:** PET

## Warranted Durability<sup>1</sup>:

Vertical 8 years (up to 10 years)  
Horizontal/  
Sloped 4 years

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

## Features:

- **Warranted Durability:** Increased lifetime for the best long-term service period
- **Energy Efficient:** Exceptional energy saving, reducing need for air-conditioning
- **Dual Reflective:** Transforms and unifies building's exterior and pleasant interior ambiance
- **Rejection:** Excellent heat and glare rejection

## Common Applications:

**DR Grey XTRM films** were developed for external use on vertical architectural glass in commercial, residential and public sector. They are developed to tackle commercial projects, where a long-term service period is critical to payback.



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## PRODUCT CHARACTERISTICS

### Avery Dennison® XTRM™ Exterior Dual Reflective Solar Films

#### Optical & Solar Properties:

DR Grey 20 XTRM™		
	Single Pane	Double Pane
Visible Light Transmitted %	20	18
Visible Light Reflected (Int) %	17	23
Visible Light Reflected (Ext) %	40	41
U V Block %	99,9	99,9
Total Solar Energy Reflected %	44	44
Total Solar Energy Transmitted %	17	15
Total Solar Energy Absorbed %	39	41
Emissivity (Room side)	0,84	0,84
Glare Reduction %	78	78
Selective InfraRed Reduction (SIRR) %	83	83
InfraRed Energy Rejection (IRER) %	73	73
Shading Coefficient	0,33	0,25
Solar Heat Gain Coefficient	0,29	0,22
U-Value Winter	1,04	0,48
K-Value Winter	5,91	2,73
Luminous Efficacy	0,60	0,72
Total Solar Energy Rejected %	71	78

### **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.



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