PRODUCT DATA SHEET

Avery Dennison® Interior Dual Reflective Solar Films

Issued: 02/2019
Revision: 4

Introduction

The **DR Grey** product line, combines a reflective outer layer for high solar energy rejection with a less reflective inner layer to preserve the view outside and maintain indoor ambiance. All films deliver high levels of protection from solar heat. They cut energy costs by reducing the need for air conditioning and boosting energy efficiency.

Description

Color: in: neutral black-grey; out: silver reflective
Technology: Vacuum metal deposition + Nanotechnology

Face:
DR Grey 05 i, translucent PET
DR Grey 15 i, UV stabilized PET

Adhesive: Pressure sensitive **Permanent** – Solvent based acrylic
Liner: PET

Warranted Durability[1]: 12 years

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

Features:

- **High level of heat rejection** cuts energy costs by reducing consumption and peak load
- **Outstanding glare control** for enhanced comfort
- **Warm neutral interior** with low reflectivity preserves ambiance and views
- **99+% UV bloc**k limits fading and damage from the sun

Common Applications:

DR Grey films are ideal for commercial and residential energy-upgrade glazing projects when the customer demands quick payback but wants a neutral interior that preserves the view outside.

PRODUCT CHARACTERISTICS **Avery Dennison® Interior Dual Reflective Solar Films**

Optical & Solar Properties:

	DR Grey 05 i		DR Grey 15 i	
	Single Pane	Double Pane	Single Pane	Double Pane
Visible Light Transmitted %	7	7	12	11
Visible Light Reflected (Int) %	18	18	25	26
Visible Light Reflected (Ext) %	59	60	56	57
U V Block %	99	99	99	99
Total Solar Energy Reflected %	53	48	51	46
Total Solar Energy Transmitted %	7	6	9	9
Total Solar Energy Absorbed %	40	46	39	45
Shading Coefficient	0,21	0,34	0,23	0,35
Total Solar Energy Rejected %	82	71	80	70
Solar Heat Gain Coefficient	0,18	0,29	0,20	0,30
Emissivity (Room side)	0,78	0,78	0,78	0,78
U-Value Winter	1,01	0,47	1,01	0,47
K-Value Winter	5,73	2,68	5,73	2,68
Glare Reduction %	92	91	87	87
Luminous Efficacy	0,33	0,22	0,51	0,31

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.