

# DR Grey 20 8 mil X

## Architectural Window Film

Avery Dennison® DR Grey 20 8 mil X provides a cost-effective exterior modernization that balances a sleek, professional appearance with a neutral interior for unobstructed views. This high-performance film delivers exceptional solar heat protection and energy savings. For ultimate peace of mind, it integrates security-grade shatter protection to safeguard tenants and assets against impact and harsh weather.

Optical and Solar Properties*	DR Grey 20 8 mil X	
Pane	Single	Double
Visible Light Transmitted	19%	18%
Visible Light Reflected (Interior)	14%	21%
Visible Light Reflected (Exterior)	34%	35%
Ultraviolet Block	99%	99%
Total Solar Energy Reflected	38%	38%
Total Solar Energy Transmitted	18%	15%
Total Solar Energy Absorbed	44%	47%
Emissivity (Room Side)	0.84	0.84
Glare Reduction	79%	78%
Selective Infrared Reduction (SIRR)	82%	82%
Infrared Energy Rejection (IRER)	70%	70%
Shading Coefficient (SC)	0.36	0.27
Solar Heat Gain Coefficient (G-Value)	0.31	0.31
U Value Winter (IP)	1.04	0.48
U Value Winter (SI)	5.91	2.73
Luminous Efficacy	0.54	0.66
Total Solar Energy Rejected (%)	69%	77%

  

Mechanical Properties**	DR Grey 20 8 mil X
Thickness	8 mil
Tensile Strength at Break	26,000 PSI
Break Strength	190 lb/ inch
Elongation at Break	130%
Peel Strength	7 lb/ inch

\*Performance results are calculated on 1/8" glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry standards (+/- 3% nominal). Performance calculations should only be used for estimating purposes.

\*\*Mechanical properties were measured on Shimadzu Autograph AGS-X. See warranty for additional product conditions.

12/2025

For information on warranty terms, exclusions and certain limitations that apply please see our website: [graphics.averydennison.com](http://graphics.averydennison.com)  
All statements, technical information and recommendations about Avery Dennison products are based upon tests and information believed to be reliable but do not constitute a guarantee or warranty of any kind. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its intended and other purposes.



# Avery Dennison® Architectural Window Films

**DR Grey 20X 8 mil**

Revision: 0

Dated: 12/11/25

## Uses:

Custom DR Grey 20X 8 mil (A550513) is a thick solar control window film with integrated security features, specifically designed for architectural applications. This film offers advanced safety, security and heat rejection performance. It's unique dual-reflective structure features a reflective outer layer for enhanced privacy, while the neutral inner layer utilizes nanotechnology to ensure unobstructed outward views. These features are combined with robust safety elements for comprehensive security.



**Face Film:** PET



**Adhesive:** Pressure Sensitive (PS)



**Liner:** Silicone Coated PET



**Durability:**

Exterior: Horizontal - 3 Years, Vertical - 5 Years



**Shelf Life:** 24 months

**Application Surfaces:** Application Surfaces: Smooth Flat surfaces. - Compatible with glass

## Features

- Tough Dual-Reflective layer between vandals and glass.
- Provides Increased Safety and daytime Privacy.
- If damaged can be removed and replaced.

## Conversion

- Out of Box
- Wet Apply
- Manual Trim to Fit
- Plotter Cut

## Common Applications

- Flat Glass
- Schools
- Offices
- Residential
- Storefronts

## Product Data Sheet

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## Physical Characteristics

Property	Measurement	Typical Value
Caliper, face	DR Grey 20X 8 mil X	8 mil
Flammability	NA	Product for EXTERNAL USE ONLY
Shelf-Life		24 Months (when stored at the following temperatures and humidity conditions 50° -95° F (10° - 35° C) and 50±5% R. H.)
Durability	Exterior	Horizontal - 3 Years, Vertical - 5 Years
Tensile Strength at Break	ASTM D-882	26,000 PSI
Break Strength	ASTM D-882	TD 230 lb/inch MD 150 lb/inch
Elongation at Break	ASTM D-882	130%
Peel Strength	DR Grey 20X 8 mil	7 lbs/in

## Optical and Solar Properties

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## Safety Testing

Specification	Rating
ASTM E-84	NA - Exterior Application only

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## Related Documents:

[Window Film Resources](#)

For information on warranty terms, exclusions and certain limitations that apply see [Window Film Warranty](#) for details.

Document Title	Link / Location
Installation and Maintenance of Avery Dennison Architectural Window Film	<a href="#">IB 7.00</a>
Film to Glass Application Chart	<a href="#">LINK</a>

## DR Grey 20X 8 mil Durability:

Sub-Section

Film	Residential	Commercial
DR Grey 20X 8 mil	Exterior Vertical - 5 yr (5th year prorated)	Exterior Vertical - 5 yr (5th year prorated)
	Exterior Horizontal - 3 yr	Exterior Horizontal - 3 yr

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