

# Avery Dennison Clima Ceramic™ Series

Architectural  
Interior Solar Window Films





The Avery Dennison Clima Ceramic™ series is a premium window film engineered with advanced non-conductive, non-metallic ceramic nano-particles.

It delivers exceptional solar control without the drawbacks of traditional metallised options, making it the definitive choice for modern, high-performance glazing. Designed for contemporary commercial buildings, retail spaces and smart homes, the non-metallic ceramic construction guarantees zero interference with digital signals, allowing uninterrupted Wi-Fi, 5G, and mobile connectivity throughout your space.

## Key Benefits for Architectural Excellence



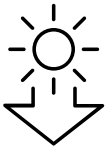
### Advanced Ceramic Construction

Built with state-of-the-art ceramic technology, the film is inherently stable and will not corrode, fade, or degrade over time, ensuring your investment remains pristine for years.



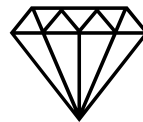
### Intelligent Heat Control System

Actively targets and rejects the sun's most heat-producing infrared rays. This drastically reduces interior temperatures, alleviating the burden on air conditioning systems and creating a consistently comfortable environment for occupants.



### No-Compromise Performance

Experience the ultimate in durability and reliability. The robust ceramic construction withstands harsh environmental conditions, providing unwavering solar protection and energy efficiency that stands the test of time.



### Sophisticated Aesthetics

Enhance your building's facade with a beautiful, neutral tone. The Clima Ceramic series maintains high optical clarity and low reflectivity, preserving stunning views and complementing any architectural design without altering the glass's natural appearance.



### Ultimate Interior Protection

Form a powerful barrier against the sun's most damaging elements. By blocking over 99% of harmful ultraviolet radiation, this film meticulously safeguards expensive furnishings, hardwood floors, and bespoke artwork from irreversible fading and sun damage.

## Clima Ceramic series

Optical and Solar Properties <sup>1</sup>	CC 1590i	CC 3090i	CC 5075i	CC 5095i	CC 7090i	CC 8075i
Visible Light Transmitted	15%	32%	57%	51%	70%	78%
Visible Light Reflected (Interior)	6%	6%	8%	7%	9%	9%
Visible Light Reflected (Exterior)	5%	6%	8%	9%	8%	8%
Ultra Violet Block	>99%	>99%	>99%	>99%	>99%	>99%
Total Solar Energy Reflected	5%	6%	7%	9%	7%	7%
Total Solar Energy Transmitted	11%	20%	38%	30%	37%	53%
Total Solar Energy Absorbed	82%	74%	55%	61%	55%	40%
Emissivity (Room Side)	0.87	0.86	0.86	0.86	0.86	0.85
Glare Reduction	71%	53%	33%	42%	20%	12%
IRR (780-2500nm)	93%	93%	78%	90%	90%	73%
Shading Coefficient	0.41	0.45	0.61	0.55	0.59	0.73
Solar Heat Gain Coeff. (G-Value)	0.37	0.4	0.54	0.49	0.52	0.65
U-Value Winter	6	6	6	6	6	6
K-Value Winter	5.86	5.86	5.86	5.86	5.86	5.85
Luminous Efficacy	0.29	0.59	0.95	1.03	1.14	1.08
Total Solar Energy Rejected (TSER)	63%	60%	46%	50%	48%	34%

<sup>1</sup> Performance results are calculated on 1/8" (6mm) glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry standards. Performance calculations should only be used for estimating purposes.

**THERMAL STRESS WARNING:** > High-performance window films increase solar energy absorption, which can significantly raise the temperature of the glass. In certain glazing types, such as tinted, laminated, or double-paned (IGU) units, this thermal expansion may cause glass breakage if the stress exceeds the glass's edge strength.

**PRE-INSTALLATION REQUIREMENT:** A professional "Glass-to-Film" Compatibility Check is required prior to specification. The specifier/purchaser must ensure the selected film is safe for the specific glazing system. Avery Dennison is not liable for glass breakage due to improper film-to-glass matching.

### Technical Glossary of Terms

#### Visible Light Transmitted (VLT)

The percentage of visible light that passes through the glass. Lower percentages provide higher glare control and privacy.

#### Solar Heat Gain Coefficient (SHGC)

The fraction of solar radiation admitted through a window. Lower values indicate better heat rejection.

#### Total Solar Energy Rejected (TSER)

The total percentage of incident solar energy (heat) rejected through a combination of reflection and absorption.

#### Solar Energy Absorbed

The amount of solar radiation heat held by the glass and film. This value is critical for assessing thermal stress risk.

#### UV Block

The percentage of harmful Ultraviolet rays blocked (Standard: >99%) to reduce fading of interior furnishings.

#### U-Value (Winter)

The rate of heat transfer through the window; lower values represent better insulation against heat loss.

#### Glare Reduction

The percentage by which visible light is reduced compared to clear glass to improve visual comfort.

#### IRR (Infrared Rejection)

The percentage of infrared radiation (780-2500nm) filtered to reduce solar heat.

#### Luminous Efficacy

The ratio of visible light allowed (VLT) versus heat blocked (SHGC).



Specify the Avery Dennison Clima Ceramic series for your next architectural or design project. Contact your local representative today to request a sample and secure superior, long-lasting comfort for your building.

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