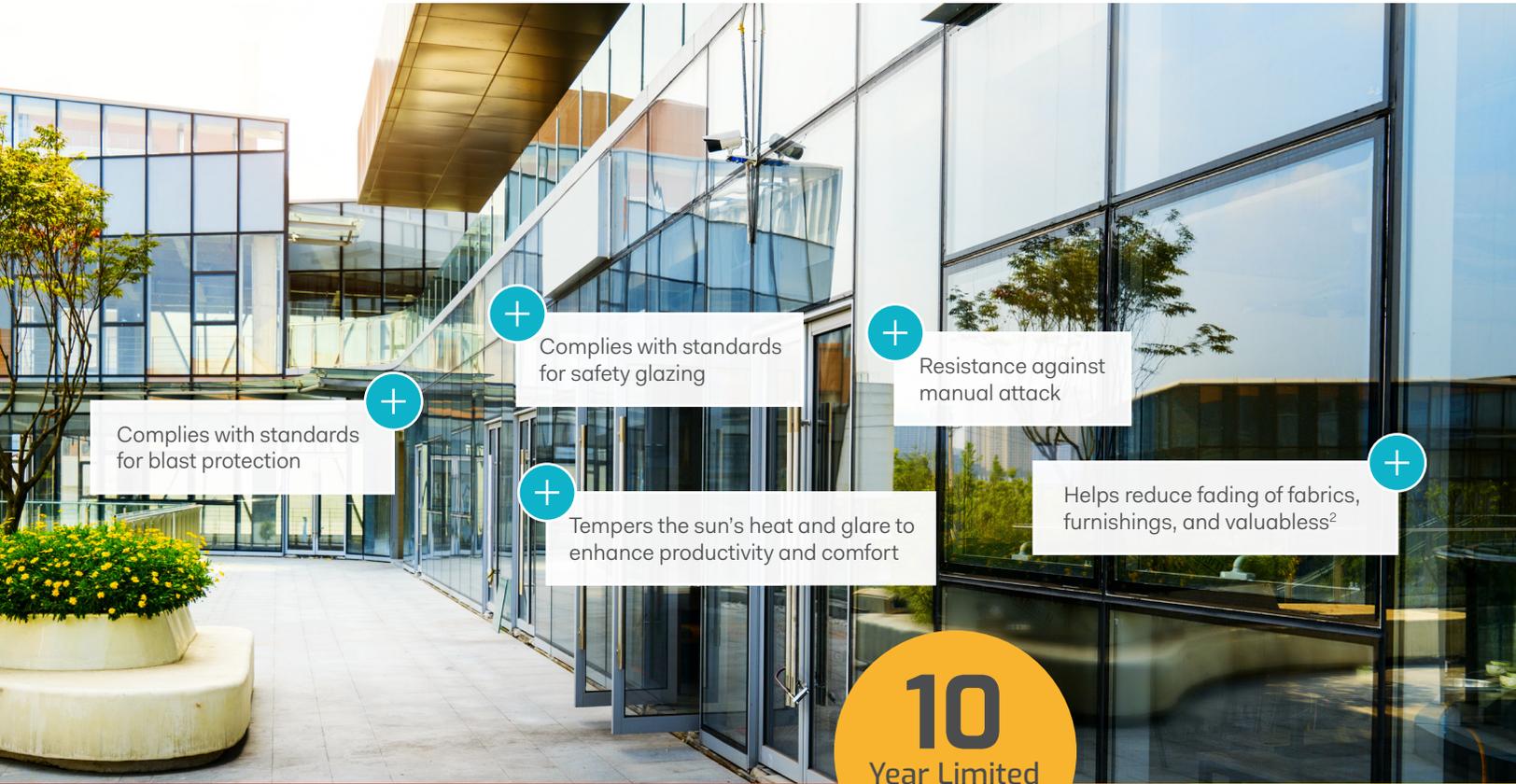




SOLAR SAFETY & SECURITY SERIES

Solar Control Films



Complies with standards for blast protection

Complies with standards for safety glazing

Resistance against manual attack

Tempers the sun's heat and glare to enhance productivity and comfort

Helps reduce fading of fabrics, furnishings, and valuables²

10
Year Limited
Warranty¹

SOLAR SAFETY FILM FOR COMMERCIAL AND RESIDENTIAL WINDOWS

Typical glass windows in a commercial building can be broken in 5 seconds or less. Glass with LLumar[®] Solar Safety and Security Film adds an extra layer of protection that reinforces windows and helps hold dangerous glass shards together if shattered. It helps protect against multiple safety and security threats:

- Break-ins
- Explosive blasts
- Everyday accidents

BENEFITS AND SELECTION CRITERIA

- Helps Provide Burglary Protection
- Helps Minimize Storm Damage
- Upgrade Annealed Glass to Safety Glass
- Improves Comfort
- UV Protection
- Interior Installation
- Reduces Glare

RECOMMENDED APPLICATIONS

For display windows, doors and more.

PERFORMANCE DATA

	Solar Energy Transmission	Solar Energy Reflection - Exterior	Solar Energy Absorption	Visible Light Transmission	Visible Light Reflection - Exterior	Visible Light Reflection - Interior	UV Transmission (wavelengths 300-380nm)	Shading Coefficient	Emissivity	U-Value (EN 673 W/m ² K)	Glare Reduction	Coefficient of Total Energy Transmission (g-value)	Total Solar Energy Rejected	Colour Rendering
R 20 PS5 ³ (Single Pane)	12%	56%	32%	15%	60%	64%	<1%	0.22	0.81	5.67	83%	0.19	81%	85%
R 20 PS5 ³ (Double Pane)	11%	52%	37%	14%	60%	64%	<1%	0.35	0.81	2.68	83%	0.50	70%	84%
R 20 PS9 ³ (Single Pane)	12%	58%	30%	15%	60%	61%	<1%	0.22	0.88	5.85	83%	0.19	81%	86%
R 20 PS9 ³ (Double Pane)	11%	52%	37%	14%	61%	60%	<1%	0.34	0.88	2.74	83%	0.30	70%	85%
N1020 PS4 (Single Pane)	23%	21%	56%	23%	25%	27%	<1%	0.42	0.89	5.89	74%	0.36	64%	98%
N1020 PS4 (Double Pane)	20%	24%	56%	22%	29%	27%	<1%	0.61	0.89	2.73	74%	0.53	47%	99%
N1020 PS8 (Single Pane)	22%	24%	54%	23%	27%	27%	<1%	0.40	0.90	5.92	75%	0.35	65%	99%
N1020 PS8 (Double Pane)	19%	26%	55%	21%	31%	28%	<1%	0.59	0.90	2.74	74%	0.51	49%	99%
N1040 PS4 (Single Pane)	37%	13%	50%	39%	15%	16%	<1%	0.57	0.89	5.91	57%	0.49	51%	99%
N1040 PS4 (Double Pane)	33%	18%	49%	36%	21%	18%	<1%	0.71	0.89	2.73	57%	0.62	38%	99%
N1040 PS8 (Single Pane)	37%	14%	49%	39%	15%	16%	<1%	0.57	0.90	5.93	57%	0.49	51%	98%
N1040 PS (Double Pane)	33%	18%	49%	36%	21%	17%	<1%	0.71	0.90	2.74	56%	0.62	38%	99%
N1050 PS4 (Single Pane)	49%	9%	42%	51%	10%	13%	<1%	0.68	0.90	5.92	43%	0.59	41%	98%
N1050 PS4 (Double Pane)	43%	14%	43%	47%	16%	15%	<1%	0.78	0.90	2.74	43%	0.68	32%	99%
N1050 PS8 (Single Pane)	46%	11%	43%	47%	12%	14%	<1%	0.65	0.90	5.93	47%	0.56	44%	98%
N1050 PS8 (Double Pane)	40%	16%	44%	43%	18%	16%	<1%	0.75	0.90	2.74	47%	0.66	34%	98%
NUV 65 PS4 (Single Pane)	63%	9%	28%	69%	10%	8%	<1%	0.80	0.90	5.92	23%	0.70	30%	99%
NUV 65 PS4 (Double Pane)	55%	14%	31%	63%	16%	12%	<1%	0.83	0.90	2.74	23%	0.72	28%	99%

The properties reported for LLumar architectural window films were calculated using EN410 methodology for film applied to single pane (4mm clear glass) and dual pane glazing (4mm clear glass panes, 16mm air space). Reported values were calculated from representative product samples. Actual performance may vary based on a number of factors, including glass properties, and standard manufacturing variances.

EASTMAN

¹Certain restrictions apply; see an authorised dealer for warranty details. ²Films do not eliminate fading; they help reduce it. UV rays and heat are contributing factors to fading, but other factors exist. ³Developmental data, based on data obtained during product development and is subject to change. ©2024 Eastman Performance Films, LLC. All rights reserved. No liability is accepted for errors. Visual renderings are for illustrative purposes only; actual appearance of windows treated with film may vary. 04/24