



Solar control films

LLumar® Dual Reflective Series.



Keep your cool and enjoy the view.

With the Dual-Reflective Series Window Film from LLumar.

Commercial buildings and residential installations have something in common. While modern and wide glazings provide for an irresistible view, workers and residents are experiencing a tremendous amount of glare and overheating – especially in warmer locations. LLumar has a perfect and easy solution to this problem: Dual-Reflective Window Film.

These highly durable films are reflective on the exterior and less reflective on the interior, which helps provide clear day and night views. Its neutral warm grey colour blends in seamlessly and is available in a variety of shade options. It features all the advantages of the LLumar Window Film range: scratch-resistant coating, shields 99% of ultraviolet rays, reduces energy costs, provides substantial heat rejection and improves occupant comfort. The film is easily applied to existing glazing making it the cost effective solution for your business or home. Because nothing should spoil your view.

Recommended Applications.

- Public buildings
- Residential buildings
- Schools and universities
- Commercial offices
- Health care facilities
- Hotels

EASTMAN



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Overall benefits and selection criteria.

- Shields 99% of UV radiation, reduces fading of valuables, fabrics, and furnishings.
- Durable scratch-resistant coating for easy cleaning.
- Reduction of hot spots increases HVAC efficiency and lowers energy costs.
- Interior installation.

Improved building aesthetics. Used where excellent heat and glare reduction are required, but a very low interior surface reflectance is desired at night, with a warm to neutral daylight ambience.

DR15 SR (Warm Grey)

Performance Data

	% Visible Light Transmission	% Total Solar Transmission	% Ultraviolet Transmission	% Visible Light Reflection (External)	% Total Solar Reflection	% Visible Light Reflection (Internal)	g value	U value, (W/m2.K)	Shading Coefficient	% Total Solar Energy Rejection	% Total Solar Absorption	% Glare Reduction
Single Pane 4 mm	17	18	<1%	36	36	12	0.28	5.15	0.35	72	46	81
Double Pane 4 mm	16	16	<1%	38	36	13	0.42	2.56	0.52	58	48	80

DRN25 SR (Warm Grey)

Performance Data

	% Visible Light Transmission	% Total Solar Transmission	% Ultraviolet Transmission	% Visible Light Reflection (External)	% Total Solar Reflection	% Visible Light Reflection (Internal)	g value	U value, (W/m2.K)	Shading Coefficient	% Total Solar Energy Rejection	% Total Solar Absorption	% Glare Reduction
Single Pane 4 mm	23	23	<1%	27	29	11	0.33	5.23	0.42	67	48	75
Double Pane 4 mm	21	20	<1%	31	30	12	0.48	2.58	0.60	52	50	74

DRN35 SR (Warm Grey)

Performance Data

	% Visible Light Transmission	% Total Solar Transmission	% Ultraviolet Transmission	% Visible Light Reflection (External)	% Total Solar Reflection	% Visible Light Reflection (Internal)	g value	U value, (W/m2.K)	Shading Coefficient	% Total Solar Energy Rejection	% Total Solar Absorption	% Glare Reduction
Single Pane 4 mm	36	33	<1%	18	20	12	0.44	5.41	0.55	56	47	60
Double Pane 4 mm	33	30	<1%	23	23	13	0.56	2.26	0.70	44	47	59

The solar performance data reported for these films was captured using EN410 standard guidelines for window film solar performance measured on single pane, 4 mm clear glass. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties.

