



Solar control films

LLumar® Dual Reflective Series



Helps to keep cool and enjoy the view

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, helps reduce energy costs, provides substantial heat rejection and helps improve occupant comfort. The film is easily applied to existing glazing making it a 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

* Certain restrictions apply; see an authorised dealer for warranty details.

** Films do not eliminate fading; they help reduce it. UV rays and heat are contributing factors to fading, but other factors exist.

EASTMAN



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Overall benefits and selection criteria

- Shields 99% of UV radiation, helps reduce fading of valuables, fabrics, and furnishings**.
- Durable scratch-resistant coating for easy cleaning.
- Reduction of hot spots while helping to both increase HVAC efficiency and lower 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 ambiance.

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	0.32	72	46	81
Double Pane 4 mm	16	16	<1%	38	36	13	0.42	2.56	0.48	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	0.38	67	48	75
Double Pane 4 mm	21	20	<1%	31	30	12	0.48	2.58	0.55	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	0.51	56	47	60
Double Pane 4 mm	33	30	<1%	23	23	13	0.56	2.62	0.64	44	47	60

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.

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