

FILM
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Interior Side

Benefits and selection criteria

- Shields >99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings**
- Durable scratch-resistant coating for easy cleaning
- Reduction of hot spots helps increase HVAC efficiency and lower energy costs
- Improves building aesthetics
- Used where moderate glare and heat reduction are essential, combined with low reflectance and neutral daylight color balance

Manufacturer's
Limited Warranty*

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Exterior Side

Performance Data

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorbance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter U-value	Shading Coefficient	% Ultraviolet Ray Protection (wavelengths 300-380nm)	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio (LSG)	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
Clear Glass 1/4" (6mm) single pane	77	7	16	88	8	8	1.03	0.94	38	0.84	0.82	19	1.07	-	-	-
Clear Glass 1/4" (6mm) dual pane	61	11	28	79	14	14	0.47	0.81	54	0.84	0.70	30	1.13	-	-	-
N1020 SR CDF 1/4" (6mm) clear single pane	20	24	56	23	29	27	1.01	0.43	>99	0.82	0.37	63	0.62	55	2	74
N1020 SR CDF 1/4" (6mm) clear dual pane	16	22	62	21	32	27	0.47	0.53	>99	0.82	0.47	53	0.45	33	0	73

The solar performance data reported for LLumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement. All safety and performance data has been measured in accordance with ASTM, ASHRAE, AIMCAL and ANSI standards using NFRC methodology with Lawrence Berkeley National Lab's WINDOW Fenestration Analysis Software. 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.