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Interior Side

## Benefits and selection criteria

- + Rejects up to 66% of solar energy, reducing heat build-up and energy costs
- + Blocks >99% of ultraviolet rays\*, helping to protect furnishings by reducing premature fading
- + Bronze hue with low interior and high exterior reflectivity
- + Reduces glare and eye fatigue
- + Optically-clear sputtered film with advanced color stable technology
- + Manufacturer's limited warranty†

**EASTMAN**

LLumar.com

\*Wavelengths 280-380nm. †Certain restrictions apply; see authorized dealer for warranty details. © 2016 Eastman Chemical Company. VISTA™, the VISTA® logo, LLumar® and the LLumar® logo are trademarks of Eastman Chemical Company or one of its wholly owned subsidiaries. As used herein, ® denotes registered trademark status in the U.S. only. Printed in U.S.A. (05/16) SP1044



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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	% UV Ray Protection (wavelengths 280-380nm)	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 1/8" (3mm) single pane	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	-	-	-
V33BR SR CDF 1/8" (3mm) clear single pane	25	43	32	39	25	18	0.95	0.39	>99	0.67	0.34	66	1.15	60	9	57
Clear Glass 1/8" (3mm) dual pane	70	13	17	81	15	15	0.48	0.88	44	0.84	0.76	24	1.07	-	-	-
V33BR SR CDF 1/8" (3mm) clear dual pane	22	38	40	35	28	19	0.46	0.46	>99	0.67	0.40	60	0.88	47	4	57
Clear Glass 1/4" (6mm) single pane	77	7	16	88	8	8	1.03	0.94	38	0.84	0.82	18	1.07	-	-	-
V33BR SR CDF 1/4" (6mm) clear single pane	23	36	41	38	24	18	0.94	0.40	>99	0.67	0.35	65	1.09	57	9	57
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	-	-	-
V33BR SR CDF 1/4" (6mm) clear dual pane	19	28	53	34	27	19	0.45	0.48	>99	0.67	0.42	58	0.81	40	4	57

The solar performance data reported for Vista by 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.