

CASE STUDY: Protection For Hill Country Home

VISTA
WINDOW FILM

LLumar

Site

Private Residence

Location

San Antonio, Texas

Window Film

SpectraSelect VS60 SR CDF

Product Series

Spectrally-Selective Series



SITUATION

Set high in the Hill Country of San Antonio, this residence is an outstanding example of modern, open-air design, with spacious rooms, exquisite furnishings, and panoramic views through huge glass windows. The design fulfilled the owner's true desire to bring the "outside in." However, the breathtaking views and openness brought by the glass expanse came with a price: the sunlight brought ultraviolet, heat and glare. Driven by discomfort, soaring air conditioning bills, and fear of faded furnishings, the homeowners looked for a solution and found one at a local home show where they first learned of solar control window film.

SOLUTION

At their request, the area Vista™ by LLumar® dealer paid a visit to the home to make an analysis and recommend a solution. He pointed out that the sun's ultraviolet rays were principally responsible for the fading of interior fabric, furnishings, carpet, and wood. Excessive sunlight was obviously also responsible for glare, heat, and wasted energy associated with glass windows. Furthermore ultraviolet rays have also been associated by the medical community with photo-aging and some skin cancers, including melanoma. The answer to all these problem was the installation of Vista™ by LLumar® (formerly UVShield®) SpectraSelect.

RESULT

Over 1000 square feet of solar control window film was installed. This virtually invisible film reduces glare and reflectivity while letting in just the right amount of daylight to bring the interior into bright focus without impairing views. Vista SpectraSelect blocks more than 99 percent of ultraviolet rays, helping protect against premature fading.*

The couple now enjoys their home and views fully, comforted by the knowledge that their furnishings are protected from fading, and their air-conditioning bills will be reduced.

Performance Data

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorptance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter U-value	Shading Coefficient	% Ultraviolet 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	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	-	-	-
Spectrally-Selective Series																
SpectraSelect VS60 SR CDF	35	28	37	66	10	10	0.88	0.52	>99	0.55	0.45	55	1.47	48	15	27

EASTMAN

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 as measured on single pane, 1/8 inch (3 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. *Films do not eliminate fading—they reduce it. UV rays and heat are contributing factors to fading but other factors exist. For further information see LLumar.com/download-library. ©2008, revised 2016 Eastman Chemical Company. VISTA™, the VISTA® logo, LLumar®, the LLumar® logo and Enerlogic® 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. (11/16) SP1134

LLumar.com