

**Site**

Sagamore Hill Historic Landmark

**Location**

Oyster Bay, New York

**Window Film**

Dayview V45

**Product Series**

Neutral Series



**SITUATION**

The goal of the recent restoration of Sagamore Hill in Oyster Bay, New York, the family home of our 26th President, was to return it to the 1901-1919 era when Theodore Roosevelt, his wife Edith, and their six children resided there. After TR's death in 1919, his widow lived there alone until the 1940s, updating the house to meet her needs and understandably, giving away some furnishings to relatives. Still, 85 percent of the Sagamore Hill furnishings are original, making the renovation back to the time when Teddy Roosevelt lived there much easier.

**SOLUTION**

To preserve this landmark for the generations to come, curators were anxious to protect the furnishings, draperies, artwork, paneling and floors from the damaging ultraviolet rays of the sun. With that in mind, Vista™ by LLumar® Dayview window film, a high-tech solar control film that blocks more than 99 percent of the damaging ultraviolet rays, helping protect against premature fading\* was selected. It was also used to reduce glare and eliminate hot spots, saving energy by cutting down heat gain. The Sagamore Hill installation was a complex task involving some 350 window panes throughout the house.

**RESULT**

The application of Vista Window Film had another added benefit: it meant that window shades which previously had been left down could now be raised during daylight hours to open the rooms up to the vast expanse of surrounding lawns and woodlands... knowing the home and its furnishings were protected for many years to come.

**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 280-380nm)	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Reflected	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	-	-	-
Neutral Series																
Dayview V45 SR CDF	42	14	44	46	15	13	1.07	0.64	>99	0.89	0.55	45	0.84	36	-3	49

**EASTMAN**

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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. (06/16) SP1100