

# WINDOW FILM PERFORMANCE DATA | Architectural: North America



## Protective Window Film

	% 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	83	8	9	90	8	8	1.04	0.99	29	0.84	0.86	14	1.05	0	0	0

**Safety-and-Security** Safety-and-Security products are durable films available in a variety of clear, neutral, dual-reflective, and reflective offerings with a range of solar control options. Neutral, Dual-Reflective and Reflective films can be applied over glass to improve aesthetics, solar performance and reduce glare. These thicker films meet various standards for burglary resistance, blast mitigation, wind-borne debris, and basic safety glazing. See LLumar.com for testing details.

SCL SR PS2 (Clear)	83	8	9	89	9	9	1.07	0.99	94	0.90	0.86	14	1.03	0	-3	1
SCL SR PS4 (Clear)	82	8	10	89	9	9	1.07	0.98	99	0.90	0.85	15	1.05	1	-3	1
SCL SR PS7 (Clear)	82	8	10	89	9	9	1.07	0.97	99	0.90	0.85	15	1.05	1	-3	1
SCL SR PS8 (Clear)	81	9	10	88	10	10	1.06	0.96	>99	0.90	0.84	16	1.05	2	-2	2
SCL SR PS13 (Clear)	80	9	11	88	10	10	1.06	0.96	>99	0.90	0.83	17	1.06	3	-2	2
R20 SR PS5 (Silver)*	10	56	34	13	62	65	0.87	0.21	>99	0.53	0.19	81	0.68	78	16	86
R20 SR PS9 (Silver)*	10	55	35	13	61	65	0.87	0.22	>99	0.54	0.19	81	0.68	78	16	86
DR15 SR PS5 (Warm Gray)*	14	40	46	13	42	12	0.91	0.30	>99	0.60	0.26	74	0.50	70	13	86
DR15 SR PS9 (Warm Gray)*	14	40	46	13	42	13	0.91	0.31	>99	0.62	0.27	73	0.48	69	13	86
DR25 SR PS5 (Warm Gray)*	18	35	47	18	36	14	0.9	0.35	>99	0.59	0.31	69	0.58	64	13	80
DR25 SR PS9 (Warm Gray)*	18	35	47	18	36	14	0.9	0.35	>99	0.59	0.30	70	0.60	65	13	80
N1020 SR PS4 (Neutral)	23	22	55	24	26	27	1.06	0.47	>99	0.88	0.41	59	0.59	52	-2	73
N1020 SR PS8 (Neutral)	23	22	55	24	26	27	1.06	0.47	>99	0.88	0.41	59	0.59	52	-2	73
N1040 SR PS4 (Neutral)	38	14	48	39	16	17	1.06	0.61	>99	0.90	0.53	47	0.74	38	-2	57
N1040 SR PS8 (Neutral)	38	14	48	39	16	17	1.06	0.61	>99	0.90	0.53	47	0.74	38	-2	57
N1050 SR PS4 (Neutral)	48	10	42	49	11	14	1.07	0.70	>99	0.90	0.61	39	0.80	29	-3	46
N1050 SR PS8 (Neutral)	48	10	42	49	11	14	1.07	0.70	>99	0.90	0.61	39	0.80	29	-3	46

**Anti-Graffiti** Anti-Graffiti Series films are optically clear, enhanced with ultraviolet inhibiting agents that shield up to 99% of UV rays, and are made to help resist common graffiti, chemicals, paints, and tools, and are made with special adhesives for ease of removal and replacement.

GCL SR RPS4 (Clear)	82	9	9	89	9	10	1.07	0.97	97	0.90	0.85	15	1.05	1	-3	1
GCL SR RPS6 (Clear)	81	9	10	89	10	10	1.07	0.97	99	0.90	0.84	16	1.06	2	-3	1



LLumar.com

\*Developmental data, based on data obtained during product development and is subject to change. Data captured using National Fenestration Rating Council's (NFRC) guidelines as measured on single pane, nominal 1/8 inch (3mm) 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. \*\*\*These are calculated numbers which may differ between similar products due to averaging and rounding. ©2019 Eastman Performance Films, LLC. Product brands referenced herein with a ™ or ® symbol are trademarks of Eastman Chemical Company or its subsidiaries. All other trademarks are the property of their respective owners. All rights reserved. No liability is accepted for errors. Printed in U.S.A. (11/19) L2287