

Performance Results

1/8"
(3mm)
Single pane clear

Product description	SOLAR ENERGY			VISIBLE LIGHT			Emissivity	Winter U-Factor (Btu hr/ft ² °F)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index- luminous efficacy (VLT/SC)	Light to solar heat gain factor (VLT/SHGC)	% Ultraviolet light blocked (300 to 380 nanometers)	% Total solar energy rejected	% Summer solar heat gain reduction	% Glare reduction
	% Transmittance	% Absorptance	% Reflectance	% Transmittance	% Reflectance exterior	% Reflectance interior										
Clear glass	83	10	8	90	9	9	.84	1.04	1.00	.86	.92	1.05	27	15	0	0
SPECTRALLY SELECTIVE FILMS – clear dry adhesive																
Panorama Hilite 70	37	28	35	72	9	9	.77	1.00	.52	.45	1.39	1.62	>99	55	48	20
Panorama Hilite 40 (pressure sensitive adhesive)	27	43	30	42	6	7	.75	.99	.46	.39	.92	1.07	>99	61	54	53
Panorama Sterling 70	61	22	17	75	13	12	.80	1.02	.77	.67	.97	1.12	>99	33	22	17
Panorama Sterling 60	49	28	23	63	17	16	.78	1.02	.65	.56	.97	1.12	>99	44	35	30
Panorama Sterling 50	35	33	32	49	26	24	.69	.96	.51	.44	.97	1.13	>99	56	49	45
Panorama Sterling 40	28	34	39	41	33	30	.68	.95	.43	.37	.96	1.12	>99	63	57	54
Panorama Sterling 20	15	37	49	23	45	42	.67	.95	.29	.24	.78	.92	>99	76	71	75
DUAL REFLECTIVE FILMS – clear dry adhesive																
Panorama Slate 40	34	43	23	44	18	12	.81	1.02	.54	.47	.82	.95	>99	53	46	51
Panorama Slate 30	23	48	30	30	24	14	.84	1.04	.43	.37	.70	.81	>99	63	57	67
Panorama Slate 20	16	47	37	23	31	17	.84	1.04	.35	.30	.65	.76	>99	70	65	75
Panorama Slate 10	8	44	48	12	44	21	.82	1.03	.24	.21	.49	.57	>99	79	76	87
SAFETY FILMS – pressure sensitive adhesive																
Panorama 8 Mil Hilite 70	38	30	32	72	10	10	.79	1.02	.54	.47	1.34	1.55	>99	53	46	20

SC = Shading coefficient SHGC = Solar heat gain coefficient VLT = Visible light transmission
TOTAL SOLAR ENERGY REJECTED = Amount of solar energy reflected by glass

- Solar Gard is a participating member of AIMCAL (the Association of Industrial Metallizers, Coaters and Laminators), IWFA, and EWFA. Performance results are calculated using NFRC methodology and LBNL Window 5.2 software, and are subject to variations within industry standards and only intended for estimating purposes.
- These test data contain only results arrived at after employing specific test procedures and standards. The included data do not constitute a recommendation for, endorsement of, or certification of the product or material tested. These data are provided for informational purposes only and are not to be considered part of the basic representation or warranty, expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose, that its products will conform to these test data. Solar Gard's limited warranty should be carefully reviewed prior to purchasing any Solar Gard product. Extrapolation of data from the sample or samples relation to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Solar Gard shall not be responsible for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by persons or under conditions over which Solar Gard has no control.
- Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.



1/4"
(6mm)
Single pane clear

Product description

Product description	SOLAR ENERGY			VISIBLE LIGHT			Emissivity	Winter U-Factor (Btu hr/ft ² °F)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index- luminous efficacy (VLT/SC)	Light to solar heat gain factor (VLT/SHGC)	% Ultraviolet light blocked (300 to 380 nanometers)	% Total solar energy rejected	% Summer solar heat gain reduction	% Glare reduction
	% Transmittance	% Absorbance	% Reflectance	% Transmittance	% Reflectance exterior	% Reflectance interior										
Clear glass	77	16	7	89	9	9	.84	1.02	.94	.82	.94	1.09	34	18	0	0

SPECTRALLY SELECTIVE FILMS – clear dry adhesive

Panorama Hilite 70	35	36	29	71	9	9	.77	.99	.53	.45	1.34	1.57	>99	55	44	20
Panorama Hilite 40 (pressure sensitive adhesive)	26	49	25	41	6	7	.75	.98	.47	.40	.89	1.04	>99	60	51	53
Panorama Sterling 70	55	31	14	74	13	12	.80	1.01	.74	.64	1.00	1.16	>99	36	22	17
Panorama Sterling 60	45	34	20	62	17	16	.78	.99	.64	.55	.97	1.13	>99	45	32	30
Panorama Sterling 50	33	40	28	49	25	24	.69	.94	.51	.44	.95	1.11	>99	56	46	45
Panorama Sterling 40	26	41	33	41	32	30	.68	.94	.43	.37	.94	1.09	>99	63	54	54
Panorama Sterling 20	14	45	42	22	44	42	.67	.93	.30	.26	.74	.85	>99	74	68	75

DUAL REFLECTIVE FILMS – clear dry adhesive

Panorama Slate 40	32	48	20	44	17	12	.81	1.00	.54	.46	.81	.94	>99	54	43	51
Panorama Slate 30	21	54	25	29	23	14	.84	1.02	.43	.37	.68	.79	>99	63	54	67
Panorama Slate 20	15	53	32	22	30	17	.84	1.02	.37	.31	.61	.72	>99	69	61	75
Panorama Slate 10	8	51	41	12	43	21	.82	1.01	.27	.23	.43	.50	>99	77	71	87

SAFETY FILMS – pressure sensitive adhesive

Panorama 8 Mil Hilite 70	37	37	26	71	9	10	.79	.99	.55	.47	1.30	1.51	>99	53	41	20
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3. Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.

1/8" + 1/8"
(3mm + 3mm)
Double pane clear with
1/2" (12mm) air space

Product description

Product description	SOLAR ENERGY			VISIBLE LIGHT			Emissivity	Winter U-Factor (Btu hr/ft ² °F)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index- luminous efficacy (VLT/SC)	Light to solar heat gain factor (VLT/SHGC)	% Ultraviolet light blocked (300 to 380 nanometers)	% Total solar energy rejected	% Summer solar heat gain reduction	% Glare reduction
	% Transmittance	% Absorbance	% Reflectance	% Transmittance	% Reflectance exterior	% Reflectance interior										
Clear glass	69	18	13	81	16	16	.84	.48	.87	.75	.93	1.08	41.5	25	0	0
SPECTRALLY SELECTIVE FILMS – clear dry adhesive																
Panorama Hilite 70	32	37	31	65	16	13	.77	.47	.56	.49	1.17	1.35	>99	51	36	20
Panorama Hilite 40 (pressure sensitive adhesive)	24	49	27	38	13	8	.75	.47	.55	.48	.69	.79	>99	52	37	53
Panorama Sterling 70	52	28	20	68	19	17	.80	.48	.74	.64	.92	1.06	>99	36	15	17
Panorama Sterling 60	41	35	24	58	22	19	.78	.47	.66	.57	.87	1.01	>99	43	24	29
Panorama Sterling 50	30	40	30	45	30	26	.69	.46	.56	.48	.81	.94	>99	52	36	44
Panorama Sterling 40	24	41	35	38	36	31	.68	.46	.50	.43	.76	.89	>99	57	43	53
Panorama Sterling 20	13	45	42	21	47	43	.67	.47	.39	.34	.54	.62	>99	66	55	74
DUAL REFLECTIVE FILMS – clear dry adhesive																
Panorama Slate 40	29	47	23	41	23	13	.81	.48	.62	.53	.65	.76	>99	47	29	50
Panorama Slate 30	19	53	28	27	28	15	.84	.48	.54	.47	.51	.59	>99	53	38	66
Panorama Slate 20	14	53	33	21	34	17	.84	.48	.48	.41	.44	.52	>99	59	45	74
Panorama Slate 10	7	51	42	11	46	21	.82	.48	.38	.33	.29	.34	>99	67	56	87
SAFETY FILMS – pressure sensitive adhesive																
Panorama 8 Mil Hilite 70	33	39	28	65	16	14	.79	.47	.59	.51	1.11	1.29	>99	49	32	20

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3. Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.

1/4" + 1/4"
(6mm + 6mm)
Double pane clear with
1/2" (12mm) air space

Product description	SOLAR ENERGY			VISIBLE LIGHT			Emissivity	Winter U-Factor (Btu hr/ft ² °F)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index- luminous efficacy (VLT/SC)	Light to solar heat gain factor (VLT/SHGC)	% Ultraviolet light blocked (300 to 380 nanometers)	% Total solar energy rejected	% Summer solar heat gain reduction	% Glare reduction
	% Transmittance	% Absorptance	% Reflectance	% Transmittance	% Reflectance exterior	% Reflectance interior										
Clear glass	61	28	12	79	15	15	.84	.47	.81	.70	.98	1.13	49.9	30	0	0
SPECTRALLY SELECTIVE FILMS – clear dry adhesive																
Panorama Hilite 70	30	47	23	64	15	13	.77	.46	.57	.49	1.11	1.29	>99	51	30	20
Panorama Hilite 40 (pressure sensitive adhesive)	21	58	21	37	13	8	.75	.46	.56	.48	.66	.77	>99	52	32	53
Panorama Sterling 70	44	40	16	66	18	17	.80	.47	.70	.61	.94	1.09	>99	39	14	17
Panorama Sterling 60	37	44	19	56	22	19	.78	.46	.64	.55	.88	1.01	>99	45	21	29
Panorama Sterling 50	27	49	24	44	29	26	.69	.45	.56	.48	.78	.92	>99	52	31	45
Panorama Sterling 40	22	51	27	37	34	31	.68	.45	.50	.43	.74	.85	>99	57	38	53
Panorama Sterling 20	12	55	33	20	44	43	.67	.45	.41	.35	.50	.58	>99	65	49	74
DUAL REFLECTIVE FILMS – clear dry adhesive																
Panorama Slate 40	26	55	19	39	22	13	.81	.47	.60	.52	.65	.76	>99	48	26	50
Panorama Slate 30	17	60	23	27	27	15	.84	.47	.54	.46	.49	.57	>99	54	33	66
Panorama Slate 20	13	61	27	20	33	17	.84	.47	.49	.42	.42	.49	>99	58	40	74
Panorama Slate 10	6	61	33	11	43	21	.82	.47	.41	.35	.26	.30	>99	65	49	87
SAFETY FILMS – pressure sensitive adhesive																
Panorama 8 Mil Hilite 70	31	48	22	64	16	14	.79	.46	.59	.51	1.07	1.25	>99	49	27	20

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