



## Notice

Since the production of this document, Solar Gard has been purchased by Saint-Gobain Performance Plastics Corporation. Solar Gard is now a subsidiary of Saint-Gobain. All references within this document to Bekaert, Bekaert Specialty Films or Bekaert Specialty Films LLC, including but not limited to legal notes, copy and or copyrights are null and void. All rights and responsibilities expressed or written within this document have been transferred from Bekaert Specialty Films, LLC to Saint-Gobain.

Saint-Gobain Performance Plastics  
4540 Viewridge Avenue  
San Diego, CA 92123 USA  
Tel: 877 345 3478  
E-mail: [info@solargard.com](mailto:info@solargard.com)  
[www.solargard.com](http://www.solargard.com)

1/8"  
(3mm)  
Single pane clear

Product description	SOLAR ENERGY			VISIBLE LIGHT			Emissivity	Winter U-Factor (Btu hr/ft <sup>2</sup> °F)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index- luminous efficacy (VLT/SC)	Light to solar heat gain factor (LVT/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
<b>SPECTRALLY SELECTIVE FILMS – clear dry adhesive</b>																
Hillite 70	37	28	35	72	9	9	.77	1.00	.52	.45	1.39	1.62	>99	55	48	20
Hillite 40	27	43	30	42	6	7	.75	.99	.46	.39	.92	1.07	>99	61	54	53
Sterling 70	56	27	17	69	13	13	.75	.99	.74	.64	.94	1.09	>99	36	26	23
Sterling 60	49	28	23	63	17	16	.78	1.02	.65	.56	.97	1.12	>99	44	35	30
Sterling 50	35	33	32	49	26	24	.69	.96	.51	.44	.97	1.13	>99	56	49	45
Sterling 40	28	34	39	41	33	30	.68	.95	.43	.37	.96	1.12	>99	63	57	54
Sterling 20	15	37	49	23	45	42	.67	.95	.29	.24	.78	.92	>99	76	71	75
<b>DUAL REFLECTIVE FILMS – clear dry adhesive</b>																
Slate 50	36	39	25	47	25	24	.76	1.00	.54	.47	.88	1.01	>99	53	46	47
Slate 40	34	43	23	44	18	12	.81	1.02	.54	.47	.82	.95	>99	53	46	51
Slate 30	23	48	30	30	24	14	.84	1.04	.43	.37	.70	.81	>99	63	57	67
Slate 20	16	47	37	23	31	17	.84	1.04	.35	.30	.65	.76	>99	70	65	75
Slate 10	8	44	48	12	44	21	.82	1.03	.24	.21	.49	.57	>99	79	76	87
Autumn Bronze 30	23	40	38	34	23	16	.77	1.00	.39	.34	.87	1.00	>99	66	61	62
<b>SAFETY FILMS – pressure sensitive adhesive</b>																
8 Mil Hillite 70	38	30	32	72	10	10	.79	1.02	.54	.47	1.34	1.55	>99	53	46	20
4 Mil Sterling 60	46	28	26	62	20	19	.72	.98	.62	.53	1.00	1.16	>99	47	38	31
4 Mil Slate 40	35	42	23	45	17	14	.78	1.01	.55	.47	.82	.96	>99	53	45	50
8 Mil Slate 40	35	42	23	45	17	14	.78	1.01	.55	.47	.82	.96	>99	53	45	50
SA4	79	13	8	89	9	9	.90	1.07	.96	.83	.93	1.07	>99	17	4	1
SA8	75	14	11	84	13	12	.88	1.06	.91	.79	.93	1.07	>99	21	9	6

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

- Performance results were generated using LBNL Window 5.2, and calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Performance results are subject to variations within industry standards.
- 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 basis of any bargain or transaction involving Bekaert Specialty Films, LLC's ("Bekaert") products. Bekaert makes no 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. Bekaert's limited warranty should be carefully reviewed prior to purchasing any Bekaert product. Extrapolation of data from the sample or samples relating to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Bekaert 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 Bekaert 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	SOLAR ENERGY			VISIBLE LIGHT			Emissivity	Winter U-Factor (Btu hr/ft <sup>2</sup> °F)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index- luminous efficacy (VLT/SC)	Light to solar heat gain factor (LVT/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	77	16	7	89	9	9	.84	1.02	.94	.82	.94	1.09	34	18	0	0
<b>SPECTRALLY SELECTIVE FILMS – clear dry adhesive</b>																
Hilite 70	35	36	29	71	9	9	.77	.99	.53	.45	1.34	1.57	>99	55	44	20
Hilite 40	26	49	25	41	6	7	.75	.98	.47	.40	.89	1.04	>99	60	51	53
Sterling 70	52	33	15	68	13	12	.75	.97	.71	.62	.96	1.11	>99	38	24	23
Sterling 60	45	34	20	62	17	16	.78	.99	.64	.55	.97	1.13	>99	45	32	30
Sterling 50	33	40	28	49	25	24	.69	.94	.51	.44	.95	1.11	>99	56	46	45
Sterling 40	26	41	33	41	32	30	.68	.94	.43	.37	.94	1.09	>99	63	54	54
Sterling 20	14	45	42	22	44	42	.67	.93	.30	.26	.74	.85	>99	74	68	75
<b>DUAL REFLECTIVE FILMS – clear dry adhesive</b>																
Slate 50	34	45	22	47	24	24	.76	.98	.54	.46	.86	1.01	>99	54	43	47
Slate 40	32	48	20	44	17	12	.81	1.00	.54	.46	.81	.94	>99	54	43	51
Slate 30	21	54	25	29	23	14	.84	1.02	.43	.37	.68	.79	>99	63	54	67
Slate 20	15	53	32	22	30	17	.84	1.02	.37	.31	.61	.72	>99	69	61	75
Slate 10	8	51	41	12	43	21	.82	1.01	.27	.23	.43	.50	>99	77	71	87
Autumn Bronze 30	21	47	32	33	23	16	.77	.99	.40	.35	.83	.96	>99	65	57	62
<b>SAFETY FILMS – pressure sensitive adhesive</b>																
8 Mil Hilite 70	37	37	26	71	9	10	.79	.99	.55	.47	1.30	1.51	>99	53	41	20
4 Mil Sterling 60	43	35	22	61	19	18	.72	.96	.61	.52	1.00	1.16	>99	48	35	31
4 Mil Slate 40	33	48	19	44	17	15	.78	.98	.54	.47	.82	.95	>99	53	43	50
8 Mil Slate 40	33	48	19	44	17	15	.78	.98	.54	.47	.82	.95	>99	53	43	50
SA4	73	19	8	87	9	9	.90	1.05	.91	.79	.96	1.11	>99	21	3	1
SA8	69	21	10	83	13	12	.88	1.03	.87	.75	.95	1.10	>99	25	7	7

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

- Performance results were generated using LBNL Window 5.2, and calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Performance results are subject to variations within industry standards.
- 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 basis of any bargain or transaction involving Bekaert Specialty Films, LLC's ("Bekaert") products. Bekaert makes no 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. Bekaert's limited warranty should be carefully reviewed prior to purchasing any Bekaert product. Extrapolation of data from the sample or samples relating to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Bekaert 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 Bekaert 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.

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

Product description	SOLAR ENERGY				VISIBLE LIGHT			Winter U-Factor (Btu hr/ft <sup>2</sup> °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	Emissivity									
Clear glass	69	18	13	81	16	16	.84	.48	.87	.75	.93	1.08	41.5	25	0	0
<b>SPECTRALLY SELECTIVE FILMS – clear dry adhesive</b>																
Hilite 70	32	37	31	65	16	13	.77	.47	.56	.49	1.17	1.35	>99	51	36	20
Hilite 40	24	49	27	38	13	8	.75	.47	.55	.48	.69	.79	>99	52	37	53
Sterling 70	48	33	19	63	19	17	.75	.47	.73	.63	.86	1.01	>99	37	16	22
Sterling 60	41	35	24	58	22	19	.78	.47	.66	.57	.87	1.01	>99	43	24	29
Sterling 50	30	40	30	45	30	26	.69	.46	.56	.48	.81	.94	>99	52	36	44
Sterling 40	24	41	35	38	36	31	.68	.46	.50	.43	.76	.89	>99	57	43	53
Sterling 20	13	45	42	21	47	43	.67	.47	.39	.34	.54	.62	>99	66	55	74
<b>DUAL REFLECTIVE FILMS – clear dry adhesive</b>																
Slate 50	31	44	25	44	29	26	.76	.47	.61	.52	.71	.83	>99	48	30	46
Slate 40	29	47	23	41	23	13	.81	.48	.62	.53	.65	.76	>99	47	29	50
Slate 30	19	53	28	27	28	15	.84	.48	.54	.47	.51	.59	>99	53	38	66
Slate 20	14	53	33	21	34	17	.84	.48	.48	.41	.44	.52	>99	59	45	74
Slate 10	7	51	42	11	46	21	.82	.48	.38	.33	.29	.34	>99	67	56	87
Autumn Bronze 30	20	47	34	31	27	17	.77	.47	.49	.42	.63	.73	>99	58	44	62
<b>SAFETY FILMS – pressure sensitive adhesive</b>																
8 Mil Hilite 70	33	39	28	65	16	14	.79	.47	.59	.51	1.11	1.29	>99	49	32	20
4 Mil Sterling 60	39	35	26	57	25	22	.72	.46	.64	.55	.88	1.03	>99	45	23	30
4 Mil Slate 40	30	49	22	41	22	14	.78	.45	.62	.53	.67	.77	>99	47	26	49
8 Mil Slate 40	30	49	22	41	22	15	.78	.45	.62	.53	.67	.77	>99	47	26	49
SA4	66	20	13	81	16	16	.90	.49	.86	.74	.94	1.08	>99	26	1	1
SA8	63	22	16	77	19	19	.88	.49	.82	.71	.93	1.07	>99	29	5	6

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

- Performance results were generated using LBNL Window 5.2, and calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Performance results are subject to variations within industry standards.
- 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 basis of any bargain or transaction involving Bekaert Specialty Films, LLC's ("Bekaert") products. Bekaert makes no 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. Bekaert's limited warranty should be carefully reviewed prior to purchasing any Bekaert product. Extrapolation of data from the sample or samples relating to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Bekaert 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 Bekaert 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" + 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 <sup>2</sup> °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	61	28	12	79	15	15	.84	.47	.81	.70	.98	1.13	49.9	30	0	0
<b>SPECTRALLY SELECTIVE FILMS – clear dry adhesive</b>																
Hillite 70	30	47	23	64	15	13	.77	.46	.57	.49	1.11	1.29	>99	51	30	20
Hillite 40	21	58	21	37	13	8	.75	.46	.56	.48	.66	.77	>99	52	32	53
Sterling 70	42	42	16	61	18	16	.75	.46	.69	.60	.89	1.03	>99	40	15	23
Sterling 60	37	44	19	56	22	19	.78	.46	.64	.55	.88	1.01	>99	45	21	29
Sterling 50	27	49	24	44	29	26	.69	.45	.56	.48	.78	.92	>99	52	31	45
Sterling 40	22	51	27	37	34	31	.68	.45	.50	.43	.74	.85	>99	57	38	53
Sterling 20	12	55	33	20	44	43	.67	.45	.41	.35	.50	.58	>99	65	49	74
<b>DUAL REFLECTIVE FILMS – clear dry adhesive</b>																
Slate 50	27	52	21	42	28	26	.76	.46	.59	.51	.72	.83	>99	49	27	47
Slate 40	26	55	19	39	22	13	.81	.47	.60	.52	.65	.76	>99	48	26	50
Slate 30	17	60	23	27	27	15	.84	.47	.54	.46	.49	.57	>99	54	33	66
Slate 20	13	61	27	20	33	17	.84	.47	.49	.42	.42	.49	>99	58	40	74
Slate 10	6	61	33	11	43	21	.82	.47	.41	.35	.26	.30	>99	65	49	87
Autumn Bronze 30	17	57	26	30	27	17	.77	.46	.50	.43	.60	.70	>99	57	38	62
<b>SAFETY FILMS – pressure sensitive adhesive</b>																
8 Mil Hillite 70	31	48	22	64	16	14	.79	.46	.59	.51	1.07	1.25	>99	49	27	20
4 Mil Sterling 60	35	45	21	55	24	22	.72	.46	.62	.53	.88	1.03	>99	47	23	31
4 Mil Slate 40	26	55	19	40	22	15	.78	.46	.60	.52	.66	.77	>99	48	26	50
8 Mil Slate 40	26	55	19	40	22	15	.78	.46	.60	.52	.66	.77	>99	48	26	50
SA4	58	30	12	78	16	16	.90	.48	.80	.69	.97	1.13	>99	31	1	2
SA8	55	32	14	74	19	18	.88	.48	.77	.67	.96	1.11	>99	33	5	6

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

- Performance results were generated using LBNL Window 5.2, and calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Performance results are subject to variations within industry standards.
- 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 basis of any bargain or transaction involving Bekaert Specialty Films, LLC's ("Bekaert") products. Bekaert makes no 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. Bekaert's limited warranty should be carefully reviewed prior to purchasing any Bekaert product. Extrapolation of data from the sample or samples relating to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Bekaert 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 Bekaert 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.