

opal contracts
innovative elegant dependable

Olympian
window film



Olympian window film



Opal are specialists in the supply and installation of architectural window films which provide a practical and cost-effective alternative to pre-treated glazing offering advantages such as short lead times and ease of replacement in the event of breakage and if requirements change.

We provide real solutions to tackle glazing related problems such as solar heat gain, glare, privacy, safety and security. Graphic films can be used to create glazing signage to promote corporate identities.

Heat rejection films can reduce solar heat gain by up to 86%. Solar heat gain can be up to 1 kW of heat per 2 m² untreated vertical glazing equivalent to a 1 bar electric fire, doubling for horizontal glazing. Heat rejection films reduce air conditioning demand, thus extending plant life and reducing energy consumption.

Anti-glare films can reduce unwanted glare by up to 90%, improving working conditions by helping to reduce eye strain and complying with Health & Safety Workplace Regulation 7.

Anti-fade films can dramatically reduce fading of furniture, fabrics and precious artefacts. They are used in shops, museums, historic buildings and other UV sensitive areas.

Security films offer protection to the least secure part of any building - windows.

Safety films contain glass shards and hold glass together safely in event of a breakage. Film is a convenient and economical way to upgrade existing glass to comply with Health & Safety Workplace Regulation 14 and Building Regulation Part N requirements.

Bomb blast films protect employees and furnishings from flying shards of glass in event of an explosion.

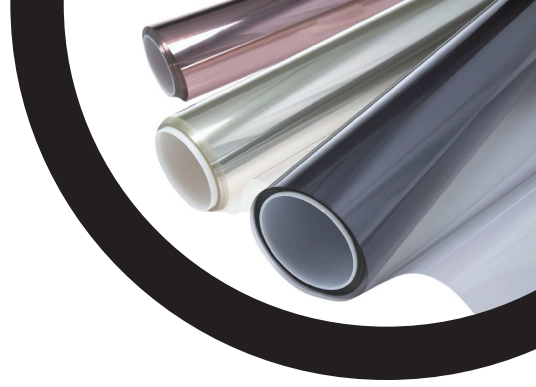
Privacy films offer cost-effective, easily adaptable one-way or two-way privacy. Privacy film can be used for aesthetic purposes to hide window clutter or cover over disused or blocked up windows.

Aesthetic films are used to improve the appearance of a building.

Graphic films can be used for producing personalised window graphics such as company logos or signage.

Manifestation graphics are used to make large areas of glass apparent for compliance with Health & Safety regulations. These are primarily available as dots or squares, however, bespoke symbols or lines can be used to enable the glass to be seen.

Combination films meet a number of purposes listed above.



Solar Films

- Reduce solar heat gain by up to 86%
- Reduce glare by up to 90%
- Reduce heating / cooling demand
- Improved working environment
- Protect workplace



Architectural Films

- Improve building appearance
- Promote your business
- Comply with health & safety laws
- Cost effective



Safety Films

- Easy to upgrade existing glass to required standard
- Protect employees
- Comply with health & safety laws
- Comply with new building regulations

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Range	Solar Energy %			Visible Light %			Emissivity	Winter U-Factor (W/m ² ·C)	Shading coefficient	Solar heat gain coefficient	Solar selectivity index - luminous efficacy (VLT/SC)	Light to solar heat gain factor (VLT/SHGC)	% Ultraviolet light blocked (@300-380nm)	% Total solar energy rejected	% Summer solar heat gain reduction	% Glare reduction	Physical Properties Nominal		
	Transmittance	Absorbance	Reflectance	Transmittance	Absorbance	Reflectance											Gauge	Tensile Strength	Melting Point
LX70	36	30	34	72	9	9	0.77	5.66	0.52	0.45	1.38	1.61	>99	55	47	20	75	2,100	260-265
Sterling 70	58	26	16	75	13	12	0.8	5.77	0.75	0.65	0.99	1.14	>99	35	23	17	50	2,100	260-265
Sterling 60	48	29	23	63	17	16	0.78	5.7	0.65	0.56	0.97	1.13	>99	44	34	30	50	2,100	260-265
Sterling 50	34	35	31	49	26	24	0.69	5.43	0.51	0.44	0.97	1.13	>99	56	48	45	50	2,100	260-265
Sterling 40	27	36	37	41	33	30	0.68	5.39	0.43	0.37	0.96	1.11	>99	63	56	54	50	2,100	260-265
Sterling 20	15	39	46	23	45	42	0.67	5.36	0.29	0.25	0.77	0.9	>99	75	70	75	50	2,100	260-265
Stainless Steel 50	43	46	11	48	13	11	0.89	6.02	0.66	0.57	0.73	0.85	>99	43	33	46	50	2,100	260-265
Stainless Steel 35	38	49	13	42	15	13	0.88	5.99	0.61	0.53	0.69	0.8	>99	74	37	53	50	2,100	260-265
Stainless Steel 30	30	54	16	34	20	17	0.86	5.93	0.54	0.46	0.63	0.73	>99	54	45	62	50	2,100	260-265
Stainless Steel 20	21	56	23	24	28	25	0.84	5.87	0.44	0.38	0.53	0.62	>99	62	55	74	50	2,100	260-265
Stainless Steel 10	9	56	35	9	43	42	0.79	5.72	0.3	0.25	0.31	0.36	>99	75	70	90	50	2,100	260-265
Quantum/Silver/Quantum 20	18	75	7	321	8	6	0.85	5.9	0.48	0.41	0.45	0.53	>99	59	52	76	50	2,100	260-265
Quantum/Silver/Quantum 10	7	71	22	9	24	22	0.85	5.9	0.33	0.28	0.26	0.31	>99	72	67	90	50	2,100	260-265
Solar Bronze 50	29	36	35	44	23	21	0.69	5.42	0.45	0.38	0.99	1.16	>99	62	54	50	50	2,100	260-265
Solar Bronze 35	20	39	41	35	29	27	0.68	5.39	0.36	0.31	0.97	1.13	>99	69	64	61	50	2,100	260-265
Solar Bronze 20	12	41	47	22	37	36	0.66	5.33	0.27	0.23	0.82	0.96	>99	77	73	76	50	2,100	260-265
Silver 50	38	39	23	53	23	22	0.77	5.67	0.57	0.49	0.92	1.06	>99	51	41	41	50	2,100	260-265
Silver 35	25	40	35	34	38	36	0.73	5.54	0.42	0.36	0.82	0.96	>99	64	58	62	50	2,100	260-265
Silver 20	11	39	50	16	58	58	0.7	5.45	0.25	0.22	0.64	0.75	>99	78	74	82	50	2,100	260-265
Silver/Grey 20	15	53	32	13	33	11	0.75	53.6	0.35	0.3	0.38	0.44	>99	70	65	85	50	2,100	260-265
Grey/Silver 20	15	62	23	13	10	35	0.74	5.58	0.38	0.32	0.34	0.4	>99	68	62	86	50	2,100	260-265
Grey/Silver 15	9	63	28	8	11	49	0.72	5.52	0.31	0.27	0.26	0.3	>99	73	68	91	38	2,100	260-265
Grey/Silver/Grey 10	11	65	24	6	10	10	0.79	5.72	0.35	0.3	0.16	0.18	>99	70	64	94	50	2,100	260-265
Bronze/Silver 20	16	59	25	16	14	37	0.72	5.51	0.38	0.32	0.43	0.51	>99	68	62	82	38	2,100	260-265
Bronze/Silver 15	7	59	34	8	19	59	0.71	5.48	0.28	0.24	0.27	0.32	>99	76	72	92	50	2,100	260-265
Bronze/Silver 10	11	64	25	8	13	14	0.7	5.45	0.34	0.29	0.23	0.27	>99	71	66	91	50	2,100	260-265
Silver AG 25 Low E	14	43	43	22	40	48	0.33	4.27	0.27	0.23	0.8	0.94	>99	77	73	76	50	2,100	260-265
Sentinel Silver 20 OSW	11	25	64	16	61	57	0.84	5.86	0.21	0.18	0.74	0.87	>99	82	78	82	50	2,100	260-265
Sentinel Silver 35 OSW	25	29	46	34	41	37	0.84	5.86	0.39	0.33	0.87	1.02	>99	67	61	62	50	2,100	260-265
Sentinel 4 Mil Clear OSW	77	165	8	89	10	9	0.84	5.87	0.93	0.81	0.95	1.09	>99	19	4	11	100	2,100	260-265
Clear Frost	60	21	19	65	25	27	0.87	5.96	0.76	0.66	0.85	0.99	>99	34	22	27	50	2,100	260-265
Black Opaque	0	95	5	0	6	7	0.87	5.96	0.35	0.3	0	0	>99	70	65	100	75	2,100	260-265
White Opaque	14	33	53	9	70	84	0.88	5.99	0.28	0.24	0.33	0.38	>99	76	72	90	50	2,100	260-265
4 Mil Graffitigard	78	14	8	89	9	9	0.84	5.87	0.95	0.82	0.94	1.08	>98	18	3	1	100	2,100	260-265
6 Mil Graffitigard	78	14	8	88	10	10	0.84	5.86	0.94	0.82	0.94	1.08	>98	18	3	1	150	2,100	260-265
7 Mil Graffitigard	78	14	8	88	9	9	0.84	5.86	0.94	0.82	0.94	1.08	>98	18	3	1	175	2,100	260-265

Maintenance

Do not clean the film for 30 days after installation. This will help secure proper curing of the special mounting adhesive to the glass.

General maintenance: Always use fresh, clean, soft materials to wash and dry the window film surfaces. A clean, soft cloth or synthetic sponge is recommended for washing the window film, followed by another clean, soft cloth for soft rubber squeegee for drying. To avoid scratching the film, do not use bristle brushes, paper towels, abrasive scrubbing sponges or any cleaning materials that may have been contaminated with dirt particles, as is commonly the case when washing interior and exterior windows with the same cleaning supplies. Our films are not warranted against unreasonable of abrasives.

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