





Battle Creek High School Battle Creek, Michigan

Pilkington Eclipse Advantage™ Arctic Blue (coating on #2 surface) /Pilkington Energy Advantage™ (coating on #3 surface)



Pilkington **Eclipse Advantage**™

Pilkington **Eclipse Advantage**™ is a pyrolytic low-emissivity coated solar control glass. It is available in a variety of natural colors to meet individual design and performance requirements.

Pilkington **Eclipse Advantage**™ combines solar and thermal control with good visible light transmittance, subtle reflectivity, and glare control. The durable pyrolytic coating is applied to the glass during the manufacturing process. It can be applied to a variety of crisp, consistent colors - Clear, Grey, Bronze, Blue-Green, EverGreen and Arctic Blue.

Pilkington **Eclipse Advantage**™ provides a versatile and attractive solution to all applications where a brightly colored glass is needed, with enhanced solar control performance. It is also well suited for the small refurbishment, to the large prestigious commercial development, where a high impact solution is needed.

Features and Benefits

- Low solar heat gain, which can lead to significant savings in utility costs.
- Low-e coatings reduce the emissivity of glass and lower the U-factor.
- Design flexibility with a selection of natural colors.
- Interior glare control, reducing the need for blinds and shades.
- Low UV (ultraviolet) Transmittance, which reduces results in less fading.
- Ideal for new commercial construction and replacement applications.
- High daylight transmittance reduces the need for interior lighting.

Durability of the Coating

Pyrolytic coated glass can be handled, cut, tempered, bent and fabricated into insulating glass units using standard techniques. It has a virtually unlimited shelf-life and can be single glazed, inventoried locally and edge deletion is not required. Also, ceramic frit can be applied or silk screened to the coated surface and it will not oxidize or change color over time.

Mag 214, Dubai Pilkington **Eclipse Advantage**™ Grey (coating on #2 surface)

Cover: Michigan State Federal Credit Union East, Lansing, Michigan Pilkington **Eclipse Advantage**^{**} EverGreen (coating on #2 surface)

Single Glass Performance Data^{1, 10}

Single diass Periorilance		_											
	Nominal Glass Thickness		Visible Light ²			Solar Energy ²				 _			
			ance³	Reflectance ⁴ %		nce³ %	nce ⁴	nce² %	U.S.	U.S.		Solar Heat Gain Coefficient ⁷	Shading Coefficient [®]
	in.	mm	Transmittance ³	Outside	Inside	Transmittance ³	Reflectance⁴ %	UV Transmittance ² %	Summer* (Btu/hr. sq ft.ºF)	Winter* (W/sq m K)	European**	Solar F Coef	Sh
Pilkington Eclipse Advantag	je ™ (coa	ating or	า #2 sur	face)									
Clear	1/4	6	67	25	28	58	19	30	0.53	0.67	3.7	0.62	0.72
	5/16	8	66	25	28	55	17	29	0.53	0.67	3.7	0.60	0.69
Grey	1/4	6	32	10	27	29	8	10	0.53	0.67	3.7	0.42	0.48
	5/16	8	25	8	27	22	7	7	0.53	0.67	3.7	0.37	0.42
Bronze	1/4	6	38	11	27	35	10	11	0.53	0.53 0.67		0.46	0.53
	5/16	8	31	9	26	28	8	8	0.53	0.67	3.7	0.41	0.47
Blue-Green	1/4	6	56	19	27	35	11	16	0.53	0.67	3.7	0.46	0.53
	5/16	8	53	17	27	30	10	13	0.53	0.67	3.7	0.42	0.48
EverGreen	1/4	6	48	15	27	23	8	7	0.53	0.67	3.7	0.37	0.43
	5/16	8	43	13	27	18	7	4	0.53	0.67	3.7	0.34	0.39
Arctic Blue	1/4	6	39	12	27	23	8	10	0.53	0.67	3.7	0.37	0.42
	5/16	8	32	10	27	17	7	7	0.53	0.67	3.7	0.33	0.38

Double Glass Performance Data^{1, 10}

	Nom	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor⁵						
				Reflectance ⁴ %		nce³ %	ce4 %	nce² %	U.S. Summer*		U.S. Winter*		Europe**		Solar Heat Gain Coefficient ⁷	Shading
	in.	mm	3 o Transmittance ³	Outside	Inside	Transmittance ³	Reflectance⁴	UV Transmittance ²	Air	Argon	Air	Argon	Air	Argon	Solar He Coeff	Sha
Pilkington Eclipse Adva	antage ™ Out	er Lite	(coating	on #2 s	surface)	and Pilki	ngton O	ptifloat	™ Clear	Inner l	_ite					
Clear	1/4	6	60	29	31	46	21	24	0.35	0.30	0.35	0.30	1.9	1.6	0.55	0.6
	5/16	8	58	29	30	42	20	21	0.34	0.30	0.34	0.30	1.9	1.6	0.53	0.6
Grey	1/4	6	29	10	29	23	9	8	0.35	0.30	0.35	0.30	1.9	1.6	0.34	0.3
	5/16	8	22	8	29	17	7	6	0.34	0.30	0.34	0.30	1.9	1.6	0.28	0.3
Bronze	1/4	6	34	13	29	28	11	9	0.35	0.30	0.35	0.30	1.9	1.6	0.38	0.44
	5/16	8	28	10	28	21	9	6	0.34	0.30	0.34	0.30	1.9	1.6	0.33	0.38
Blue-Green	1/4	6	51	21	29	29	12	13	0.35	0.30	0.35	0.30	1.9	1.6	0.38	0.4
	5/16	8	47	19	29	24	10	10	0.34	0.30	0.34	0.30	1.9	1.6	0.34	0.3
EverGreen	1/4	6	43	17	30	20	9	6	0.35	0.30	0.35	0.30	1.9	1.6	0.29	0.3
	5/16	8	38	15	29	15	8	4	0.34	0.30	0.34	0.30	1.9	1.6	0.25	0.29
Arctic Blue	1/4	6	35	13	30	19	9	9	0.35	0.30	0.35	0.30	1.9	1.6	0.29	0.3
	5/16	8	29	11	29	14	7	6	0.34	0.30	0.34	0.30	1.9	1.6	0.25	0.2
Pilkington Eclipse Adva	antage ™ Out	er Lite	(coating	on #2	surface)	and Pilki	ngton E ı	nergy A	dvanta	age [™] Lo	ow-e In	ner Lite	(Coat	ing on	#4 Surfa	ce)
Clear	1/4	6	56	30	30	41	22	19	0.25	0.23	0.27	0.24	1.6	1.4	0.51	0.5
	5/16	8	55	29	30	37	20	17	0.25	0.23	0.27	0.24	1.6	1.4	0.48	0.5
Grey	1/4	6	27	11	29	20	9	7	0.25	0.23	0.27	0.24	1.6	1.4	0.30	0.3
	5/16	8	21	8	29	15	7	5	0.25	0.23	0.27	0.24	1.6	1.4	0.25	0.2
Bronze	1/4	6	32	13	29	24	11	7	0.25	0.23	0.27	0.24	1.6	1.4	0.34	0.39
	5/16	8	26	10	28	19	9	5	0.25	0.23	0.27	0.24	1.6	1.4	0.29	0.33
Blue-Green	1/4	6	48	22	29	26	12	10	0.25	0.23	0.27	0.24	1.6	1.4	0.35	0.40
	5/16	8	44	20	29	21	11	8	0.25	0.23	0.27	0.24	1.6	1.4	0.30	0.3
EverGreen	1/4	6	40	18	30	18	9	5	0.25	0.23	0.27	0.24	1.6	1.4	0.26	0.30
	5/16	8	36	15	29	14	8	3	0.25	0.23	0.27	0.24	1.6	1.4	0.23	0.20
Arctic Blue	1/4	6	33	14	29	17	9	7	0.25	0.23	0.27	0.24	1.6	1.4	0.26	0.3
	5/16	8	27	11	29	13	7	5	0.25	0.23	0.27	0.24	1.6	1.4	0.22	0.2

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