

Pilkington Product Guide Technical Data

Single Glass Standards

Pilkington Monolithic Annealed Glass Sizes

Product	Quality Levels ¹	Nominal Glass Thickness		Approx. Weight ⁴		Thickness Tolerance Range ¹				Maximum Available Sizes ^{2,3}	
		in.	mm	lb/ft ²	kg/m ²	in.		mm		in.	mm
						min.	max.	min.	max.		
Optifloat Clear, Activ , OptiView , Energy Advantage Low-E , Solar-E Solar Control Low-E Glass	Q3	3/32	2.5	1.2	6	0.085	0.101	2.16	2.57	96x130	2438x3302
		1/8	3	1.6	8	0.115	0.134	2.92	3.40	102x130	2591x3302
		5/32	4	2.1	10	0.149	0.165	3.78	4.19	130x180	3302x4572
	Q1/Q3	3/16	5	2.5	12	0.180	0.199	4.57	5.05	130x204	3302x5182
Q2/Q3	1/4	6	3.1	15	0.219	0.244	5.56	6.20			
Optifloat Heavy Clear, Energy Advantage Low-E or Solar-E Solar Control Low-E Glass	Q3	5/16	8	4.1	20	0.292	0.332	7.42	8.43	130x204	3302x5182
		3/8	10	5.2	25	0.355	0.406	9.02	10.31		
Optifloat Heavy Clear		1/2	12	6.6	32	0.469	0.531	11.91	13.49	130x240	3302x6096
	5/8	16	8.2	40	0.595	0.656	15.09	16.66	130x204	3302x5182	
3/4	19	9.9	48	0.719	0.781	18.26	19.84				
Optifloat Heavy Grey Tint or Bronze Tint	Q3	5/16	8	4.1	20.3	0.303	0.327	7.70	8.30	130x204	3302x5182
		3/8	10	5.2	25.4	0.382	0.406	9.70	10.30		
		1/2	12	6.6	32.0	0.469	0.531	11.91	13.49	130x240	3302x6096
Optifloat Grey Tint or Bronze Tint	Q3	1/8	3	1.6	8.0	0.115	0.134	2.92	3.4	102x130	2591x3302
		3/16	5	2.6	12.7	0.189	0.205	4.80	5.2	130x204	3302x5182
		1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130x204	3302x5182
Optifloat Heavy Blue-Green Tint	Q3	5/16	8	4.1	20.3	0.303	0.327	7.70	8.30	130x204	3302x5182
		3/8	10	5.2	25.4	0.382	0.406	9.70	10.30		
Optifloat Blue-Green Tint, Evergreen High-Performance Tint or SuperGrey High-Performance Tint	Q3	1/8	3	1.6	8.0	0.115	0.134	2.92	3.40	102x130	2591x3302
		3/16	5	2.6	12.7	0.189	0.205	4.80	5.20	130x204	3302x5182
		1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130x180	3302x5182
Arctic Blue High-Performance Tint	Q3	5/32	4	2.1	10.1	0.150	0.165	3.80	4.20	130x180	3302x4572
		1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130x204	3302x5182
		3/8	10	5.2	25.4	0.382	0.406	9.70	10.30	130x204	3302x5182
Eclipse Advantage Reflective Low-E Glass or Mirropane T.M. Transparent Mirror	Q3	1/4	6	3.1	15.2	0.228	0.244	5.80	6.20	130x204	3302x5182
Optiwhite Low Iron Float Glass	EN572-2	1/8	3	1.6	7.6	0.110	0.126	2.80	3.20	88.6x126.4	2250x3210
		3/16	5	2.6	12.7	0.189	0.205	4.80	5.20		
		1/4	6	3.1	15.2	0.228	0.244	5.80	6.20		
		3/8	10	5.2	25.4	0.382	0.406	9.70	10.30	126.4x200.8	3210x5100
		1/2	12	6.2	30.4	0.461	0.484	11.70	12.30		
		5/8	15	7.8	38.0	0.571	0.61	14.5	15.5		
		3/4	19	9.8	48.2	0.709	0.787	18	20		
Texture Glass (all products except as noted below)	EN572-5	5/32	4	2.1	10.1	0.142	0.157	3.80	4.20	52.0x83.9	1320x2130
		1/4	6	3.1	15.2	0.228	0.244	5.70	6.30		
Reeded (Texture Glass)	EN572-5	5/32	4	2.1	10.1	0.150	0.165	3.80	4.20	52.0x83.9	1320x2130
Austral & Morisco (Texture Glass)	EN572-5	5/32	4	2.1	10.1	0.142	0.157	3.80	4.20	63.0x98.4	1600x2500
Rayado, Sparkel and Yacare (Texture Glass)	EN572-5	5/32	4	2.1	10.1	0.142	0.157	3.80	4.20	57.1x88.6	1450x2250

1. Per ASTM C 1036; with exception of **Texture™** and **Optiwhite™**
 2. Size listed may, in some cases, be too large to meet applicable static load requirements.
 3. Certain other thicknesses and sizes may be available upon request
 4. Based on the mean of the thickness range. Note glass density = 158 lb./cu. ft.
 5. Typical production nominal glass thickness in bold typeface
- * Pilkington **Optifloat™** Blue-Green Glass: 1/8" and 5mm are not standard products
 * Subject to Availability

Single Glass Data ^{1,10}

Product	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵			Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
			Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer	U.S. Winter	European ⁶		
	in.	mm		Outside	Inside								

Pilkington Uncoated Float Glass

Optifloat Clear	3/32	2.5	90	8	8	86	8	75	0.95	1.05	5.9	0.87	1.00
	1/8	3	90	8	8	84	8	72	0.94	1.04	5.8	0.86	0.99
	5/32	4	89	8	8	81	7	68	0.94	1.04	5.8	0.84	0.97
	3/16	5	89	8	8	80	7	65	0.93	1.03	5.8	0.83	0.96
	1/4	6	88	8	8	77	7	63	0.93	1.03	5.7	0.82	0.94
	5/16	8	87	8	8	73	7	57	0.92	1.01	5.7	0.79	0.91
	3/8	10	86	8	8	70	7	54	0.91	1.00	5.6	0.77	0.88
	1/2	12	84	8	8	64	6	49	0.89	0.98	5.5	0.73	0.84
	5/8	16	83	8	8	59	6	45	0.88	0.97	5.4	0.70	0.81
3/4	19	81	7	7	55	6	41	0.86	0.95	5.3	0.67	0.78	
Optifloat Grey Tint	1/8	3	61	6	6	59	6	35	0.94	1.04	5.8	0.69	0.80
	3/16	5	50	6	6	48	5	26	0.93	1.03	5.8	0.62	0.71
	1/4	6	44	5	5	41	5	21	0.93	1.02	5.7	0.57	0.66
	5/16	8	33	5	5	31	5	14	0.92	1.01	5.7	0.50	0.59
	3/8	10	28	5	5	26	5	11	0.91	1.00	5.6	0.47	0.55
	1/2	12	19	4	4	17	4	7	0.89	0.98	5.5	0.42	0.49
Optifloat Bronze Tint	1/8	3	68	6	6	65	6	37	0.94	1.04	5.8	0.73	0.84
	3/16	5	59	6	6	55	6	28	0.93	1.03	5.8	0.67	0.77
	1/4	6	51	6	6	48	5	22	0.93	1.02	5.7	0.62	0.72
	5/16	8	44	5	5	39	5	16	0.92	1.01	5.7	0.56	0.65
	3/8	10	39	5	5	34	5	13	0.91	1.00	5.6	0.53	0.61
	1/2	12	29	5	5	25	4	8	0.89	0.98	5.5	0.47	0.55
Optifloat Blue-Green Tint	1/4	6	75	7	7	48	6	32	0.93	1.02	5.7	0.62	0.72
	5/16	8	70	7	7	40	5	25	0.92	1.01	5.7	0.57	0.66
	3/8	10	67	6	6	36	5	21	0.91	1.00	5.6	0.54	0.63
EverGreen High-Performance Tint	1/8	3	76	7	7	49	6	27	0.94	1.04	5.8	0.62	0.72
	3/16	5	73	7	7	42	5	21	0.93	1.03	5.8	0.58	0.67
	1/4	6	66	6	6	33	5	14	0.93	1.02	5.7	0.52	0.60
Arctic Blue High-Performance Tint	5/32	4	65	6	6	45	5	31	0.94	1.04	5.8	0.60	0.69
	1/4	6	53	6	6	33	5	20	0.93	1.02	5.7	0.52	0.60
	3/8	10	39	5	5	20	5	12	0.91	1.00	5.6	0.43	0.51
SuperGrey High-Performance Tint	1/8	3	25	5	5	23	4	6	0.94	1.04	5.8	0.45	0.52
	3/16	5	12	4	4	11	4	2	0.93	1.03	5.8	0.37	0.44
	1/4	6	9	4	4	8	4	1	0.93	1.03	5.7	0.35	0.41

Pilkington **Optiwhite™** Low Iron Glass

Optiwhite Low Iron	1/8	3	91	8	8	90	8	87	0.94	1.04	5.8	0.91	1.04
	3/16	5	91	8	8	89	8	85	0.93	1.03	5.8	0.90	1.04
	1/4	6	91	8	8	89	8	84	0.93	1.02	5.7	0.90	1.03
	3/8	10	90	8	8	87	8	81	0.91	1.00	5.6	0.89	1.02
	1/2	12	90	8	8	86	8	79	0.90	0.99	5.5	0.88	1.01
	5/8	15	90	8	8	85	7	77	0.88	0.97	5.4	0.87	1.00
	3/4	19	89	8	8	83	7	74	0.86	0.95	5.3	0.86	0.99

Product	Nominal Thickness		Glass Substrate	Visible ² Transmittance %	Visible ² Reflectance On The Coated Side %	Visible ² Reflectance Glass Side %	Recommended Light Ratio	Proper Glazing
	in.	mm						
Pilkington Mirropane T.M.™	1/4	6	Grey	11	68	16	8:1 Subject-side: Observer-side	Mirror coating toward subject-side

Single Glass Performance Data ^{1,10}

Product	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵			Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
			Transmittance ³	Reflectance ⁴ %		Transmittance ³	Reflectance ⁴ %	UV Transmittance ²	U.S. Summer	U.S. Winter	European ⁶		
	in.	mm		%	Outside								

Pilkington Energy Advantage™ Low-E Glass (#2 Surface)⁹

Energy Advantage Low-E	3/32	2.5	83	11	11	71	11	60	0.50	0.65	3.7	0.74	0.85
	1/8	3	82	11	12	69	11	57	0.50	0.65	3.7	0.72	0.83
	5/32	4	82	10	11	68	10	55	0.49	0.65	3.7	0.71	0.82
	3/16	5	83	11	12	68	10	53	0.49	0.65	3.7	0.71	0.82
	1/4	6	82	10	11	66	10	49	0.49	0.64	3.6	0.70	0.81
	5/16	8	81	10	11	62	9	45	0.49	0.64	3.6	0.67	0.77
	3/8	10	80	10	11	59	9	42	0.49	0.63	3.6	0.64	0.75

Pilkington Eclipse Advantage™ Reflective Low-E Glass (#2 Surface)⁹

Eclipse Advantage Clear	1/4	6	67	25	28	58	19	30	0.53	0.67	3.8	0.62	0.72
Eclipse Advantage Grey	1/4	6	32	10	27	29	8	10	0.53	0.67	3.8	0.41	0.48
Eclipse Advantage Bronze	1/4	6	38	11	27	35	10	11	0.53	0.67	3.8	0.45	0.53
Eclipse Advantage Blue-Green	1/4	6	56	19	27	35	11	16	0.53	0.67	3.8	0.45	0.53
Eclipse Advantage EverGreen	1/4	6	48	15	27	23	8	7	0.53	0.67	3.8	0.36	0.43
Eclipse Advantage Arctic Blue	1/4	6	39	12	27	23	8	10	0.53	0.67	3.8	0.36	0.42
Eclipse Advantage Gold	1/4	6	41	32	41	47	20	7	0.62	0.75	4.2	0.53	0.62

Pilkington Solar-E™ Solar Control Low-E Glass (#2 Surface)⁹

Solar-E Solar Control Low-E	1/8	3	60	8	9	46	8	48	0.50	0.65	3.7	0.54	0.63
	5/32	4	60	8	9	44	8	46	0.50	0.65	3.7	0.53	0.62
	3/16	5	60	7	9	48	7	44	0.50	0.65	3.7	0.53	0.61
	1/4	6	60	8	9	46	7	44	0.50	0.65	3.7	0.52	0.61
	5/16	8	59	8	9	42	7	41	0.50	0.64	3.7	0.51	0.59

Pilkington OptiView™ Anti-Reflective Glass

OptiView Anti-Reflective Glass	1/4	6	92	1.7	1.7	70	3	<1	0.68	0.81	4.7	0.77	0.89
Clear Float Glass	1/4	6	88	8	8	77	7	63	0.93	1.02	5.7	0.81	0.94
OptiView Anti-Reflective Glass	1/2	12	89	1.6	1.6	63	3	<1	0.65	0.77	4.5	0.72	0.83
Clear Float Glass	1/2	12	84	8	8	64	6	49	0.89	0.98	5.5	0.73	0.84

Notes: Contact Pilkington for other OptiView™ thickness and laminated glass combinations.

Pilkington OptiView™ Anti-Reflective Glass performance based on:

- 6mm (1/4") laminated glass: 3mm (1/8") OptiView™ (#1) + 0.76mm (0.030") clear pvb + 3mm (1/8") OptiView™ (#4)
- 12mm (1/2") laminated glass: 6mm (1/4") OptiView™ (#1) + 0.76mm (0.030") clear pvb + 6mm (1/4") OptiView™ (#4)

Clear float glass performance based on non-laminated glass.

Pilkington Activ™ Self-cleaning Glass (#1 Surface)

Activ Self-Cleaning	3/32	2.5	84	15	15	82	12	50	0.95	1.05	5.9	0.83	0.96
	1/8	3	83	15	15	80	13	49	0.94	1.04	5.8	0.82	0.94
	5/32	4	83	15	15	79	12	47	0.94	1.04	5.8	0.81	0.93
	3/16	5	83	15	14	77	12	46	0.93	1.03	5.8	0.80	0.92
	1/4	6	82	15	15	75	12	44	0.93	1.02	5.8	0.78	0.90

Double Glass Performance Data ^{1,10}

Insulating units constructed of equal glass thicknesses and 1/2" (12.7mm) airspace

Product	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵						Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
			Transmittance ³	Reflectance ⁴ %		Transmittance ³	Reflectance ⁴	UV Transmittance ²	U.S. Summer		U.S. Winter		European ⁶			
	in.	mm		%	Outside				Inside	%	%	%	Air	Argon		

Pilkington Uncoated Float Glass Outer Lite and Energy Advantage™ Low-E Glass Inner Lite (#3 Surface)

Optifloat Clear	3/32	2.5	76	18	17	62	17	48	0.33	0.28	0.34	0.29	1.9	1.6	0.73	0.84
	1/8	3	75	18	17	59	16	45	0.33	0.28	0.33	0.29	1.9	1.6	0.71	0.82
	5/32	4	74	17	16	56	16	42	0.33	0.28	0.33	0.29	1.9	1.6	0.69	0.80
	3/16	5	74	17	17	55	15	41	0.33	0.28	0.33	0.29	1.9	1.6	0.68	0.79
	1/4	6	73	17	16	52	14	37	0.33	0.28	0.33	0.29	1.8	1.5	0.67	0.77
	5/16	8	71	16	15	47	13	32	0.33	0.28	0.33	0.28	1.8	1.5	0.63	0.72
Optifloat Grey Tint	3/8	10	69	16	15	43	12	29	0.32	0.28	0.33	0.28	1.8	1.5	0.60	0.70
	1/8	3	50	10	15	41	11	24	0.33	0.28	0.33	0.29	1.9	1.6	0.53	0.61
	3/16	5	42	8	15	32	8	17	0.33	0.28	0.33	0.29	1.9	1.6	0.45	0.51
Optifloat Bronze Tint	1/4	6	36	7	14	27	7	13	0.33	0.28	0.33	0.29	1.8	1.6	0.40	0.46
	1/8	3	57	12	15	45	12	25	0.33	0.28	0.33	0.29	1.9	1.6	0.57	0.66
	3/16	5	49	10	15	38	10	19	0.33	0.28	0.33	0.29	1.9	1.6	0.50	0.58
Optifloat Blue-Green Tint	1/4	6	42	8	14	32	8	14	0.33	0.28	0.33	0.29	1.8	1.5	0.45	0.52
	1/4	6	62	13	15	34	9	21	0.33	0.28	0.33	0.29	1.8	1.6	0.45	0.52
EverGreen High-Performance Tint	1/8	3	64	14	16	35	9	18	0.33	0.28	0.33	0.29	1.9	1.6	0.46	0.53
	3/16	5	61	13	16	31	8	14	0.33	0.28	0.33	0.29	1.9	1.6	0.41	0.47
	1/4	6	54	11	14	24	7	9	0.33	0.28	0.33	0.29	1.8	1.5	0.35	0.40
Arctic Blue High-Performance Tint	1/4	6	43	9	14	23	7	13	0.33	0.28	0.33	0.29	1.8	1.5	0.34	0.39
SuperGrey High-Performance Tint	1/8	3	21	5	14	15	5	4	0.33	0.28	0.33	0.29	1.9	1.6	0.26	0.30
	3/16	5	10	4	14	7	4	2	0.33	0.28	0.33	0.29	1.9	1.6	0.18	0.21
	1/4	6	7	4	13	5	4	1	0.33	0.28	0.33	0.29	1.8	1.5	0.15	0.18

Pilkington Eclipse Advantage™ Reflective Low-E Glass Outer Lite (#2 Surface) and Energy Advantage™ Low-E Glass Inner Lite (#3 Surface)

Eclipse Advantage Clear	1/4	6	56	30	30	41	22	19	0.30	0.25	0.31	0.26	1.7	1.4	0.53	0.61
Eclipse Advantage Grey	1/4	6	27	11	29	20	9	7	0.30	0.25	0.31	0.26	1.7	1.4	0.31	0.36
Eclipse Advantage Bronze	1/4	6	32	13	29	24	11	7	0.30	0.25	0.31	0.26	1.7	1.4	0.36	0.41
Eclipse Advantage Blue-Green	1/4	6	48	22	29	26	13	10	0.30	0.25	0.31	0.26	1.7	1.4	0.36	0.41
Eclipse Advantage EverGreen	1/4	6	40	18	29	18	9	5	0.30	0.25	0.31	0.26	1.7	1.4	0.27	0.31
Eclipse Advantage Arctic Blue	1/4	6	33	14	29	17	9	7	0.30	0.25	0.31	0.26	1.7	1.4	0.27	0.31
Eclipse Advantage Gold	1/4	6	35	34	39	31	23	5	0.31	0.26	0.32	0.27	1.8	1.5	0.43	0.50

Pilkington Energy Advantage™ Low-E Glass Outer Lite (#2 Surface) and Clear Float Glass Inner Lite

Energy Advantage Low-E	3/32	2.5	76	17	18	62	16	48	0.33	0.28	0.34	0.29	1.9	1.6	0.67	0.77
	1/8	3	75	17	18	59	15	45	0.33	0.28	0.33	0.29	1.9	1.6	0.65	0.75
	5/32	4	74	16	17	56	14	42	0.33	0.28	0.33	0.29	1.9	1.6	0.63	0.73
	3/16	5	74	17	17	55	14	41	0.33	0.28	0.33	0.29	1.9	1.6	0.63	0.73
	1/4	6	73	16	17	52	13	37	0.33	0.28	0.33	0.29	1.8	1.5	0.62	0.71
	5/16	8	71	15	16	47	12	32	0.33	0.28	0.33	0.28	1.8	1.5	0.58	0.67
	3/8	10	69	15	16	43	12	29	0.32	0.27	0.33	0.28	1.8	1.5	0.56	0.64

Pilkington Solar-E™ Solar Control Low-E Glass Outer Lite (#2 Surface) and Clear Float Glass Inner Lite

Solar-E Solar Control Low-E	1/8	3	54	11	16	39	10	38	0.33	0.28	0.34	0.29	1.9	1.6	0.46	0.54
	5/32	4	54	10	16	38	9	36	0.33	0.28	0.34	0.29	1.9	1.6	0.47	0.53
	3/16	5	53	10	15	36	9	34	0.33	0.28	0.33	0.29	1.9	1.6	0.45	0.52
	1/4	6	53	11	15	35	9	33	0.33	0.28	0.33	0.29	1.9	1.6	0.45	0.51
	5/16	8	52	10	15	32	8	29	0.33	0.28	0.33	0.29	1.8	1.5	0.43	0.49

Double Glass Performance Data ^{1,10}

Insulating units constructed of equal glass thicknesses and 1/2" (12.7mm) airspace

Product	Nominal Glass Thickness		Visible Light ²			Total Solar Energy ²			U-Factor ⁵					Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
			Transmittance ³	Reflectance ⁴ %		Transmittance ³	Reflectance ⁴ %	UV Transmittance ²	U.S. Summer		U.S. Winter		European ⁶		
	in.	mm		%	Outside				Inside	%	%	Air	Argon		

Pilkington Uncoated Float Glass Outer Lite and Clear Float Glass Inner Lite

Optifloat Clear	3/32	2.5	82	15	15	74	14	61	0.51	-	0.48	-	2.8	-	0.78	0.90
	1/8	3	81	15	15	71	13	57	0.51	-	0.48	-	2.8	-	0.76	0.88
	5/32	4	80	15	15	67	12	52	0.50	-	0.48	-	2.8	-	0.74	0.85
	3/16	5	79	15	15	64	12	50	0.50	-	0.48	-	2.8	-	0.72	0.83
	1/4	6	78	15	15	61	12	47	0.50	-	0.47	-	2.8	-	0.70	0.81
Optifloat Grey Tint	1/8	3	55	9	13	50	9	29	0.51	-	0.48	-	2.8	-	0.58	0.67
	3/16	5	45	8	13	39	7	21	0.50	-	0.48	-	2.8	-	0.50	0.58
	1/4	6	39	7	12	32	6	17	0.50	-	0.47	-	2.8	-	0.45	0.52
Optifloat Bronze Tint	1/8	3	62	10	13	55	9	31	0.51	-	0.48	-	2.8	-	0.63	0.72
	3/16	5	53	9	13	45	8	23	0.50	-	0.48	-	2.8	-	0.55	0.64
	1/4	6	45	8	12	38	7	18	0.50	-	0.47	-	2.8	-	0.50	0.58
Optifloat Blue-Green Tint	1/4	6	67	12	14	39	8	26	0.50	-	0.47	-	2.8	-	0.50	0.58
EverGreen High-Performance Tint	1/8	3	69	12	14	42	8	23	0.51	-	0.48	-	2.8	-	0.51	0.59
	3/16	5	65	11	14	35	7	18	0.50	-	0.48	-	2.8	-	0.46	0.53
	1/4	6	58	10	13	28	6	11	0.50	-	0.47	-	2.8	-	0.40	0.46
Arctic Blue High-Performance Tint	1/4	6	47	8	13	27	6	17	0.50	-	0.47	-	2.8	-	0.39	0.46
SuperGrey High-Performance Tint	1/8	3	23	5	12	19	5	6	0.51	-	0.48	-	2.8	-	0.32	0.37
	3/16	5	11	4	12	9	4	2	0.50	-	0.48	-	2.8	-	0.24	0.28
	1/4	6	8	4	11	6	4	1	0.50	-	0.47	-	2.8	-	0.21	0.25

Pilkington Eclipse Advantage™ Reflective Low-E Glass Outer Lite (#2 Surface) and Clear Float Glass Inner Lite

Eclipse Advantage Clear	1/4	6	60	29	31	46	21	24	0.35	0.30	0.35	0.30	1.9	1.7	0.55	0.63
Eclipse Advantage Grey	1/4	6	29	10	29	23	9	8	0.35	0.30	0.35	0.30	1.9	1.7	0.33	0.39
Eclipse Advantage Bronze	1/4	6	34	13	29	28	11	9	0.35	0.30	0.35	0.30	1.9	1.7	0.38	0.44
Eclipse Advantage Blue-Green	1/4	6	51	21	29	29	12	13	0.35	0.30	0.35	0.30	1.9	1.7	0.38	0.44
Eclipse Advantage EverGreen	1/4	6	43	17	30	20	9	6	0.35	0.30	0.35	0.30	1.9	1.7	0.29	0.33
Eclipse Advantage Arctic Blue	1/4	6	35	13	30	19	9	9	0.35	0.30	0.35	0.30	1.9	1.7	0.29	0.33
Eclipse Advantage Gold	1/4	6	37	33	41	36	22	6	0.39	0.35	0.38	0.34	2.2	1.9	0.46	0.53

Pilkington Activ™ Self-Cleaning Glass Outer Lite (#1 Surface) and Solar-E™ Solar Control Low-E Glass Inner Lite (#3 Surface)*

Activ Self-Cleaning	1/8	3	51	22	13	37	20	27	0.33	0.28	0.34	0.29	1.9	1.6	0.64	0.74
	5/32	4	51	21	13	36	20	26	0.33	0.28	0.34	0.29	1.9	1.6	0.63	0.73
	3/16	5	50	21	13	35	19	25	0.33	0.28	0.33	0.29	1.9	1.6	0.62	0.71
	1/4	6	50	21	13	34	19	24	0.33	0.28	0.33	0.29	1.9	1.6	0.60	0.69

Pilkington Activ™ Self-Cleaning Glass Outer Lite (#1 Surface) and Optifloat™ Clear Glass Inner Lite

Activ Self-Cleaning	3/32	2.5	77	21	21	71	18	42	0.51	-	0.48	-	2.8	-	0.75	0.86
	1/8	3	76	21	21	68	17	40	0.51	-	0.48	-	2.8	-	0.73	0.84
	5/32	4	75	21	20	65	17	38	0.50	-	0.48	-	2.8	-	0.72	0.82
	3/16	5	75	20	20	62	16	36	0.50	-	0.48	-	2.8	-	0.70	0.81
	1/4	6	74	21	20	59	16	34	0.50	-	0.47	-	2.8	-	0.68	0.78

Pilkington Activ™ Self-Cleaning Glass Outer Lite (#1 Surface) and Energy Advantage™ Low-E Glass Inner Lite (#3 Surface)

Activ Self-Cleaning	3/32	2.5	71	23	21	59	21	34	0.33	0.28	0.34	0.29	1.9	1.6	0.70	0.81
	1/8	3	70	24	22	56	21	33	0.33	0.28	0.33	0.29	1.9	1.6	0.68	0.78
	5/32	4	70	23	20	54	20	31	0.33	0.28	0.33	0.29	1.9	1.6	0.67	0.77
	3/16	5	70	23	21	53	19	30	0.33	0.28	0.33	0.29	1.9	1.6	0.66	0.76
	1/4	6	69	23	20	51	19	27	0.33	0.28	0.33	0.29	1.9	1.6	0.64	0.74

Pilkington OptiView™ Anti-Reflective Glass Outer Lite and Inner Lite *

OptiView Anti-Reflective	1/4	25	84	2.9	2.9	54	5	<1	0.32	0.29	0.33	0.29	1.9	1.7	0.66	0.76
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Pilkington OptiView™ Anti-Reflective Glass - Insulating Glass fabricated with two layers of Laminated Glass*
 * 2 lites of Laminates Glass - each 1/8" OptiView™ + pvb layer + 1/8" OptiView™ (coating on all 4 glass to air surfaces)
 Insulating units constructed of equal glass thicknesses and 1/2" (12.7mm) airspace

Performance Data Notes

1. Some combinations or installations may require heat treating to prevent glass breakage from thermal stress.
2. Visible, Solar and UV data are based on laboratory spectrophotometric measurements weighted by an appropriate weighting function(s) using LBNL Window 5.2 software. Wave length ranges of the sun's energy used to calculate properties: Visible from 0.38 to 0.78 microns, Solar from 0.30 to 2.5 microns and UV from 0.30 to 0.38 microns.
3. Transmittance – Percentage of normally incident visible light or solar energy passing directly through the glazing.
4. Reflectance – Percentage of normally incident visible light or solar energy reflected away from the glazing.
5. U-Factor (Btu/hr.sq ft. °F) – Measure of the heat gain or loss through glazing due to environmental differences between the outdoor and indoor air. U-Factors given are center-of-glass values calculated using LBNL Windows 5.2. Winter U-Factors are based on an outdoor temperature of 0°F (-18°C), an indoor temperature of 70°F (21°C) and a 12.3mph (5.5m/s) wind velocity with no sun. Summer U-Factors are based on an outdoor temperature of 90°F (32°C), an indoor temperature of 75°F (24°C), a solar intensity of 248 Btu/hr.sq ft. °F (783 W/sq m) and a 6.3mph (2.8m/s) wind. To obtain metric U-Factor (W/sq m. °C), multiply by 5.678. “U-Factor” is identical to the previously known term of “U-Value”.
6. European U-Factor (W/sq m.K) is based on EN 410/673 (CEN) standard.
7. Solar Heat Gain Coefficient or SHGC – The ratio of the total solar heat gain through the glass relative to the incident solar radiation. The solar heat gain includes both the solar energy directly transmitted through the glass, plus the solar energy absorbed by the glass and subsequently convected and thermally radiated inward.
8. Shading Coefficient or SC – The ratio of solar heat gain through the glass relative to that through 1/8” (3mm) clear glass at normal incidence. Note that Relative Heat Gain or RHG (Btu/hr.sq ft.), which is the amount of heat gained through the glass at assumed summer conditions, can be calculated using the following equation: $RHG = SC \times 200 + U_s \times 14$. To obtain metric RHG (W/sq m), multiply by 3.154.
9. Use of Pilkington **Energy Advantage™** Low-E, **Eclipse Advantage™** or **Solar-E™** Glass with the coating on the exposed interior surface may increase the possibility of condensation formation during winter conditions.
10. Typical values of Pilkington production are provided.

Design and Uniform Static Loads

ASTM Standard Practice E 1300 contains design load evaluation procedures for different glass thickness and failure probabilities. For a copy of this standard visit www.ASTM.org or write to:

ASTM

100 Bar Harbor Drive
West Conshohocken, PA 19428

For design and comprehensive technical data, please visit the Pilkington Web site: www.pilkington.com/the+americas/usa/english/default.htm

Tempered Glass

On rare occasions, heat-treated (tempered and sometimes even heat-strengthened) glass can break spontaneously, without any applied load, due to small inclusions that may be present in all float glasses.

Your #1 Source for Glass and Glazing Information

It's All Just a Few Keystrokes Away

All this and more are waiting for you at www.pilkington.com, your #1 source for glass and glazing information.

For more personalized assistance, to talk to one of our sales representatives, or request samples or technical information, please call Pilkington domestic sales at **(800) 221-0444**.

For Your Information

The information contained in this brochure, other Pilkington publications and the Pilkington Web site is subject to change and does not constitute a warranty of merchantability or fitness for any particular purpose. Actual performance may vary in specific applications.



Activ™ Glass, Arctic Blue™ Glass, Eclipse Advantage™ Glass, Energy Advantage™ Glass, EverGreen™ Glass, Optifloat™ Glass, Optiwhite™ Glass, OptiView™ Glass, Planar™ Glass, Profit™ Glass, Pyrostop™ Glass, Pyrodur™ Glass, Solar-E™ Glass, Sun Management™ Glass System and SuperGrey™ Glass are trademarks of Pilkington. Note: Due to reproduction and printing limitations, photos may vary from actual glass colors. Please see glass samples from Pilkington.

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