



Body-tinted solar control
Pilkington **Optifloat™** Tints





Pilkington **Optifloat™** Grey
Toyota, Oslo
Norway

Pilkington **Optifloat™** Tints

Pilkington **Optifloat™** Tint is a range of uncoated body-tinted solar control glasses, with low light reflection and high energy absorption.

The glasses come in a variety of colors: Green, Blue-Green, Graphite Blue, Grey and Bronze.

Applications

- Commercial buildings requiring solar control
- Low/mid/high rise buildings
- Medical/Hospital
- Educational facilities/Schools
- Office buildings
- Retail buildings



Pilkington **Optifloat™** Blue-Green
Northern Alberta Institute of Technology
Alberta, Canada

Features & Benefits

- Solar control, reducing the need for air conditioning.
- Low internal and external reflection, reducing uncomfortable glare from the sun.
- High light transmittance.
- Subdued colour range, complementing other building materials and natural surroundings.
- Can offer additional thermal insulation performance when combined in an insulating glass unit with a low-emissivity glass, such as Pilkington **Energy Advantage™** low-e.
- Can be laminated, toughened, bent and enamelled using standard techniques.
- Can be used in monolithic form or incorporated in insulating glass units.
- Available in a wide range of sizes from 3 mm to 12 mm thicknesses (depending on the color).

The products are particularly suitable for applications that demand solar control without the use of surface coating, for residential or commercial applications. To achieve thermal insulation, the products have to be combined with a low-emissivity glass in an insulating glass unit.



Pilkington **Optifloat™** Blue-Green
DHMP - Denver, CO

Single Glass Performance Data^{1, 10}

	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵			Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in.	mm	Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer [*]		European ^{6**}		
				Outside	Inside				U.S. Summer [*]	U.S. Winter [*]			
Pilkington Optifloat™													
Grey	1/8	3	61	6	6	59	6	35	0.94	1.04	-	0.69	0.80
	3/16	5	50	6	6	48	5	26	0.93	1.03	-	0.62	0.71
	1/4	6	44	5	5	41	5	21	0.93	1.02	-	0.57	0.66
	5/16	8	33	5	5	31	5	14	0.92	1.01	-	0.51	0.59
	3/8	10	28	5	5	26	5	11	0.91	1.00	-	0.48	0.55
	1/2	12	19	4	4	17	4	7	0.89	0.98	-	0.42	0.49
Bronze	1/8	3	68	6	6	65	6	37	0.94	1.04	-	0.73	0.84
	3/16	5	44	5	5	39	5	16	0.92	1.01	-	0.57	0.65
	1/4	6	51	6	6	48	5	22	0.93	1.02	-	0.62	0.72
	5/16	8	39	5	5	34	5	13	0.91	1.00	-	0.53	0.61
	3/8	10	39	5	5	34	5	13	0.91	1.00	-	0.53	0.61
	1/2	12	29	5	5	25	4	8	0.89	0.98	-	0.48	0.55
Blue-Green	1/4	6	75	7	7	48	6	32	0.93	1.02	-	0.62	0.72
	5/16	8	70	7	7	40	5	25	0.92	1.01	-	0.57	0.66
	3/8	10	67	6	6	36	5	21	0.91	1.00	-	0.54	0.63
Green	1/4	6	76	7	7	46	6	29	0.93	1.03	-	0.60	0.70
Graphite Blue	1/4	6	61	6	6	54	6	37	0.93	1.02	-	0.67	0.77
	5/16	8	54	6	6	46	5	30	0.92	1.01	-	0.61	0.70

Proposed Glazing

Double Glass Performance Data^{1, 10}

	Nominal Glass Thickness		Visible Light ²			Solar Energy ²			U-Factor ⁵						Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in.	mm	Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer [*]		U.S. Winter [*]		European ^{6**}			
				Outside	Inside				Air	Argon	Air	Argon	Air	Argon		
Pilkington Optifloat™ Tint Outer Lite and Pilkington Optifloat™ Clear Inner Lite																
Grey	1/4	6	39	7	12	32	6	17	0.50	-	0.47	-	2.8	-	0.45	0.52
Bronze	1/4	6	45	8	12	38	7	18	0.50	-	0.47	-	2.8	-	0.50	0.58
Blue-Green	1/4	6	67	12	14	39	8	26	0.50	-	0.47	-	2.8	-	0.50	0.58
Green	1/4	6	68	12	14	38	8	23	0.50	-	0.47	-	2.8	-	0.48	0.56
Graphite Blue	1/4	6	54	9	13	43	8	29	0.50	-	0.47	-	2.8	-	0.55	0.63
	5/16	8	48	8	13	37	7	24	0.49	-	0.47	-	2.8	-	0.49	0.56
Pilkington Optifloat™ Tint Outer Lite and Pilkington Energy Advantage™ Thermal Control Low-e Inner Lite (coating on #3 surface)																
Grey	1/4	6	36	7	14	27	7	13	0.33	0.28	0.33	0.29	1.9	1.6	0.40	0.46
Bronze	1/4	6	42	8	14	32	8	14	0.33	0.28	0.33	0.29	1.9	1.6	0.45	0.52
Blue-Green	1/4	6	62	13	15	34	9	21	0.33	0.28	0.33	0.29	1.9	1.6	0.45	0.52
Green	1/4	6	63	13	15	33	9	18	0.32	0.28	0.33	0.29	1.9	1.6	0.44	0.50
Graphite Blue	1/4	6	50	10	14	37	10	23	0.33	0.28	0.33	0.29	1.9	1.6	0.50	0.57
	5/16	8	44	9	14	31	8	19	0.33	0.28	0.33	0.29	1.9	1.6	0.44	0.50

An insulating unit consists of two lites of equal glass thickness, containing 1/4 in. lites: 1/2 in. airspace and 1 in. overall thickness.

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards.

**European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated by the LBNL Window 5.2 program.

See Pilkington Architectural Product Guide for explanation of superscript references^{1, 10}.

This publication provides only a general description of the product. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of this product is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Activ," "Energy Advantage," "Optifloat," and "Solar-E" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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