

Qingdao Morn Building Materials Co.,Ltd

Glass Performance Data For Monolithic/Lami/DGU

Table 1. Monolithic Float Glass

NO.	Glass Makeup	Visible Light(%)			Solar Energy(%)		U-value(W/m ² .K)		SC	SHGC
		Trans	Reflect		Trans	Reflect	Winter	Summer		
			Outdoor	Indoor						
1	3mm Clear	91	8	9	88	8	5.92	5.34	1.03	0.90
2	4mm Clear	90	9	8	87	8	5.88	5.30	1.02	0.89
3	5mm Clear	90	8	8	85	8	5.85	5.27	1.01	0.88
4	6mm Clear	90	8	8	84	8	5.81	5.25	0.99	0.86
5	8mm Clear	89	8	8	82	8	5.75	5.19	0.97	0.84
6	10mm Clear	89	8	8	80	7	5.67	5.13	0.96	0.84
7	12mm Clear	88	8	8	77	7	5.61	5.08	0.94	0.82
8	15mm Clear	87	8	8	75	7	5.51	4.99	0.93	0.81
9	19mm Clear	86	8	8	72	7	5.39	4.89	0.90	0.78
10	3mm Fgreen	82	8	8	61	6	5.92	5.33	0.81	0.70
11	4mm Fgreen	80	7	7	54	6	5.88	5.31	0.77	0.67
12	5mm Fgreen	77	7	7	48	6	5.84	5.27	0.72	0.63
13	6mm Fgreen	75	7	7	44	5	5.81	5.25	0.69	0.60
14	8mm Fgreen	70	7	7	36	5	5.74	5.19	0.63	0.55
15	10mm Fgreen	65	6	6	30	5	5.68	5.13	0.59	0.51
16	12mm Fgreen	60	5	5	25	4	5.61	5.07	0.56	0.48
17	5mm dark grey	26	7	7	35	7	5.84	5.27	0.56	0.49
18	6mm dark grey	19	6	6	28	6	5.81	5.25	0.51	0.44
19	8mm dark grey	14	6	6	20	6	5.74	5.19	0.44	0.38
20	10mm dark grey	8	6	6	14	6	5.67	5.13	0.39	0.34
21	12mm dark grey	5	6	6	11	6	5.62	5.08	0.37	0.32
22	5mm Euro Grey	49	5	5	47	5	5.84	5.27	0.71	0.62
23	6mm Euro Grey	44	5	5	43	5	5.82	5.25	0.68	0.59
24	8mm Euro Grey	34	5	5	33	5	5.75	5.19	0.61	0.53
25	10mm Euro Grey	27	5	5	27	5	5.68	5.13	0.56	0.48
26	12mm Euro Grey	21	4	4	21	4	5.62	5.08	0.52	0.44
27	5mm crystal grey	67	7	7	60	6	5.84	5.27	0.81	0.70
28	6mm crystal grey	64	6	7	56	6	5.81	5.25	0.77	0.67
29	8mm crystal grey	56	6	6	47	6	5.74	5.19	0.71	0.61
30	10mm crystal grey	49	6	6	40	5	5.67	5.13	0.65	0.56
31	12mm crystal grey	44	6	6	36	5	5.62	5.08	0.63	0.54
32	5mm Ford blue	61	6	6	52	6	5.83	5.26	0.75	0.65
33	6mm Ford blue	57	6	5	47	6	5.80	5.23	0.71	0.62
34	8mm Ford blue	48	5	5	38	5	5.73	5.17	0.65	0.57
35	10mm Ford blue	41	5	5	31	5	5.66	5.12	0.59	0.52
36	5mm ocean blue	60	7	6	49	7	5.83	5.26	0.73	0.64
37	6mm ocean blue	55	6	6	45	6	5.80	5.23	0.69	0.60
38	8mm ocean blue	46	6	6	45	6	5.73	5.17	0.63	0.55
39	10mm ocean blue	39	6	6	30	5	5.66	5.12	0.58	0.50
40	12mm ocean blue	33	6	6	24	5	5.62	5.08	0.54	0.47
41	5mm light blue	77	7	7	59	6	5.83	5.26	0.80	0.70
42	6mm light blue	75	7	7	55	6	5.80	5.23	0.77	0.67
43	8mm light blue	70	7	7	47	6	5.73	5.17	0.71	0.62
44	10mm light blue	65	7	7	41	5	5.66	5.12	0.66	0.58
45	5mm pink	75	9	9	75	11	5.84	5.27	0.88	0.77
46	6mm pink	70	8	8	71	10	5.81	5.25	0.85	0.74
47	8mm pink	64	8	8	65	10	5.74	5.19	0.81	0.70
48	10mm pink	59	8	8	61	9	5.67	5.13	0.77	0.67
49	5mm euro bronze	46	6	6	47	6	5.81	5.24	0.71	0.61
50	6mm euro bronze	49	7	7	49	6	5.84	5.27	0.72	0.62

Table 2. Low Iron Glass

NO.	Glass Makeup	Visible Light(%)			Solar Energy(%)		U-value(W/m2.K)		SC	SHGC
		Trans	Reflect		Trans	Reflect	Winter	Summer		
			Outdoor	Indoor						
1	4mm low iron	91	8	8	91	8	5.88	5.30	1.05	0.91
2	5mm low iron	91	8	8	90	8	5.84	5.27	1.04	0.90
3	6mm low iron	91	8	8	90	8	5.81	5.25	1.04	0.90
4	8mm low iron	91	8	8	90	8	5.75	5.19	1.04	0.90
5	10mm low iron	91	8	8	89	8	5.67	5.13	1.04	0.90
6	12mm low iron	91	8	8	89	8	5.61	5.07	1.03	0.90
7	15mm low iron	90	8	8	89	8	5.51	4.99	1.03	0.90
8	19mm low iron	90	8	8	87	8	5.39	4.89	1.02	0.89

Table 3. Monolithic Low-e Glass

NO.	Glass Makeup	Visible Light(%)			Solar Energy(%)		U-value(W/m2.K)		SC	SHGC
		Trans	Reflect		Trans	Reflect	Winter	Summer		
			Outdoor	Indoor						
1	5mm Planibel	83	10	11	68	10	3.88	3.07	0.83	0.72
2	6mm Planibel	80	9	9	62	8	3.87	3.06	0.78	0.67
3	8mm Planibel	81	10	11	64	10	3.76	2.95	0.80	0.69
4	10mm Planibel	80	10	11	64	9	3.77	2.97	0.79	0.69
5	5mm Sunergy	69	8	10	52	9	4.19	3.43	0.69	0.60
6	6mm Sunergy	69	9	10	51	9	4.17	3.42	0.68	0.59
7	8mm Sunergy	68	8	10	50	9	4.13	3.39	0.68	0.58
8	10mm Sunergy	67	8	10	47	8	4.09	3.37	0.65	0.57

Table 4. Laminated Glass

NO.	Glass Makeup	Visible Light(%)			Solar Energy(%)		U-value(W/m2.K)		SC	SHGC
		Trans	Reflect		Trans	Reflect	Winter	Summer		
			Outdoor	Indoor						
1	3C/0.38 Clear PVB/3C	90	8	8	81	8	5.75	5.19	0.97	0.84
2	5C/0.38 Clear PVB/5C	88	8	8	76	7	5.62	5.08	0.94	0.81
3	3C/0.38 Green PVB/3C	79	8	8	76	7	5.76	5.20	0.94	0.82
4	5C/0.38 Green PVB/5C	77	7	7	70	7	5.62	5.08	0.89	0.77
5	3C/0.38 Grey PVB/3C	43	5	5	54	6	5.76	5.20	0.76	0.66
6	5C/0.38 Grey PVB/5C	43	5	5	50	6	5.62	5.08	0.74	0.64
7	3C/0.38 Cool Blue PVB/3C	73	7	7	71	7	5.76	5.20	0.89	0.77
8	5C/0.38 Cool Blue PVB/5C	73	7	7	66	7	5.62	5.08	0.86	0.75

Sunergy Laminated glass

9	5Clear/0.38 Clear PVB/5Sunergy	67	8	10	46	8	4.03	3.32	0.65	0.56
10	6Clear/0.38 Clear PVB/6Sunergy	67	9	10	45	8	4.03	3.32	0.64	0.55
11	6 Clear/ 1.14 Clear PVB/ 6 Sunergy	67	9	10	46	7	4.05	3.33	0.64	0.55
12	5 Green /0.38 Clear PVB/5Sunergy	57	7	9	29	6	4.06	3.34	0.50	0.43
13	6 Green/0.38 Clear PVB/6Sunergy	56	7	10	26	6	4.03	3.32	0.49	0.42
14	6 Green/ 1.14 Clear PVB/6 Sunergy	56	7	10	27	6	3.96	3.28	0.49	0.42
15	5Ford Blue/0.38 Clear PVB/5Sunergy	46	6	9	29	6	4.04	3.33	0.51	0.43
16	6Ford Blue/0.38 Clear PVB/6Sunergy	42	6	9	26	6	4.02	3.32	0.49	0.41
17	5Euro Grey/0.38 Clear PVB/5Sunergy	36	5	8	26	6	4.06	3.34	0.48	0.41
18	6EuroGrey/0.38 Clear PVB/6Sunergy	33	5	9	23	5	4.03	3.32	0.46	0.39
19	6EuroGrey/1.52 Clear PVB/6Sunergy	32	5	8	22	5	3.93	3.26	0.45	0.39
20	5Crystal grey/0.38 Clear PVB/5Sunergy	51	7	9	34	6	4.06	3.35	0.55	0.47
21	6Crystal grey/0.38 Clear PVB/6Sunergy	48	7	9	31	6	4.03	3.32	0.52	0.46

Planibel Laminated glass

22	5Clear/0.38 Clear PVB/5Planibel	81	10	11	61	8	3.77	3.00	0.78	0.67
23	6Clear/0.38 Clear PVB/6Planibel	78	9	9	55	7	3.74	2.98	0.72	0.62
24	6Clear/1.14 Clear PVB/6 Planibel	78	9	9	55	7	3.68	2.94	0.73	0.63
25	5 Green /0.38 Clear PVB/5Planibel	69	8	10	37	6	3.77	2.99	0.56	0.48
26	6 Green/0.38 Clear PVB/6Planibel	65	7	8	31	6	3.74	2.98	0.52	0.44
27	6 Green/ 1.14 Clear PVB/6 Planibel	65	7	8	31	6	3.68	2.94	0.52	0.44
28	5EuroGrey/0.38 Clear PVB /5Planibel	44	6	9	34	6	3.77	2.99	0.54	0.46
29	6EuroGrey/0.38 Clear PVB/6Planibel	38	5	7	28	5	3.74	2.98	0.48	0.41

30	6EuroGrey/1.14 Clear PVB/6Planibel	38	5	7	27	5	3.67	2.93	0.48	0.41
31	5Crystal grey/0.38 Clear PVB/5Planibel	59	7	8	40	6	3.77	3.00	0.59	0.52
32	6Crystal grey/0.38 Clear PVB/6Planibel	56	7	8	37	6	3.74	2.98	0.57	0.49
33	5 Ford Blue/0.38 Clear PVB/5Planibel	55	7	9	38	6	3.77	2.99	0.57	0.49
34	6 Ford Blue/0.38 Clear PVB/6Planibel	49	6	7	32	6	3.74	2.98	0.52	0.44

Table 5. Insulated Glass-Without coating

NO.	Glass Makeup	Visible Light(%)			Solar Energy(%)		U-value(W/m ² .K)		SC	SHGC
		Trans	Reflect		Trans	Reflect	Winter	Summer		
			Outdoor	Indoor						
1	6 Clear+12A+6C	81	15	15	70	13	2.7	2.84	0.88	0.76
2	6 Green+12A+6C	68	12	14	38	7	2.69	2.74	0.55	0.46
3	6 Euro Grey+12A+6C	40	7	12	38	7	2.72	2.76	0.56	0.49
4	6 Crystal Grey+12A+6C	57	10	13	48	8	2.69	2.74	0.66	0.57

Rearks:

- 1.The data is based on calculation by Window 5.2 under NFRC 100-2001 standard condition.
- 2.The actual performance data may slightly differ from the data listed.

For more data requirement,please contact our technical support:

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