

XIR® LAMINATED 72-47 (FORMERLY CALIFORNIA SERIES®) ARCHITECTURAL GLASS PERFORMANCE CHART

Product/Glass Type	Unit Thickness (Nominal)		Transmittance		Reflectance			Winter Nighttime U-Value (K-Value)		Shading Coefficient	Solar Heat Gain Coefficient	Relative Heat Gain		Ultra-violet Transmittance
			Daylight Total	Solar Total	Daylight		Solar Ext.					Btu's/Hr/Ft ²	W/m ²	
	Ext.	Int.			IP	SI								
	IP*	SI*	%	%	%	%	%	IP	SI	%				
XIR® Laminated 72-47														
Clear Lami ¹ (No XIR)	1/4"	6	89	76	8	8	7	1.07	6.10	0.93	0.80	201	634	<1.0%
Clear Lami ² (No XIR)	1/2"	13	83	58	7	7	6	1.01	5.75	0.78	0.67	170	537	<1.0%
Clear Low-iron ³	1/4"	6	75	41	8	8	29	1.07	6.05	0.57	0.49	129	407	0.02%
Clear Low-iron	1/2"	13	75	40	8	8	27	1.01	5.74	0.56	0.48	126	399	0.02%
Clear ³	1/4"	6	72	37	8	8	24	1.07	6.05	0.55	0.47	125	394	0.02%
Clear	1/2"	13	68	33	8	8	33	1.01	5.74	0.53	0.45	119	377	0.02%
Low-e Clear ⁴	1/4"	6	68	34	9	10	25	0.75	4.24	0.48	0.41	106	333	0.02%
Low-e Clear	1/2"	13	65	32	9	10	20	0.69	3.90	0.46	0.40	102	322	0.02%
Amiran® Low-reflect. Clear Low-iron ⁶	3/8"	9	81	44	2	2	26	1.04	5.88	0.61	0.52	135	427	0.00%
Amiran Low-reflect. Clear Low-iron	1/2"	13	80	44	3	3	25	1.00	5.69	0.60	0.52	134	423	0.00%
Amiran Low-reflectance Clear ⁶	3/8"	9	78	41	2	2	23	1.04	5.89	0.58	0.50	131	414	0.00%
Amiran Low-reflectance Clear	1/2"	13	73	37	3	3	21	1.00	5.70	0.56	0.48	125	395	0.00%
Sierra Green ³	1/4"	6	67	31	7	7	23	1.07	6.05	0.51	0.44	116	367	0.02%
Sierra Green	1/2"	13	60	25	7	7	18	1.01	5.74	0.46	0.40	107	338	0.01%
Moss Green ⁴	1/4"	6	62	27	7	7	23	1.07	6.05	0.47	0.41	110	346	0.01%
Moss Green	1/2"	13	53	20	7	6	17	1.01	5.74	0.43	0.37	100	315	0.01%
Tahoe Blue ³	1/4"	6	63	27	7	7	23	1.07	6.05	0.47	0.41	109	345	0.02%
Tahoe Blue	1/2"	13	56	22	7	7	17	1.01	5.74	0.44	0.38	103	325	0.02%
Pacific Blue ⁵	1/2"	13	44	22	6	6	17	1.01	5.74	0.44	0.38	102	323	0.01%
Mojave Bronze ³	1/4"	6	54	29	7	6	22	1.07	6.05	0.49	0.42	113	356	0.02%
Mojave Bronze	1/2"	13	42	21	6	6	17	1.01	5.74	0.43	0.37	101	317	0.01%
Carmel Gray ³	1/4"	6	49	27	7	6	22	1.07	6.05	0.47	0.41	109	345	0.02%
Carmel Gray	1/2"	13	35	18	6	5	17	1.01	5.74	0.41	0.35	96	304	0.01%
Graylite® ³	1/2"	13	11	8	5	4	16	1.01	5.74	0.33	0.28	81	254	0.01%
XIR® Laminated IG with XIR 72-47 1/4" used as the outside lite, 1/2" airspace, and 1/4" monolithic clear lite inside. Clear with Soft-coat Low-e uses PPG Sungate 1000.														
Clear Lami (No XIR)	1"	25	79	60	15	15	12	0.48	2.73	0.80	0.69	167	528	<1.00%
Clear Low-iron	1"	25	69	38	13	15	31	0.48	2.72	0.49	0.42	106	334	0.02%
Clear	1"	25	64	31	13	15	26	0.48	2.72	0.45	0.38	97	306	0.02%
Pyrolitic Low-e Clear	1"	25	60	29	13	17	26	0.35	1.97	0.40	0.35	86	271	0.02%
Clear with Soft-coat Low-e(#3) ⁷	1"	25	56	24	11	11	26	0.29	1.66	0.38	0.33	81	256	0.01%
Sierra Green	1"	25	60	27	11	14	25	0.48	2.72	0.40	0.34	88	277	0.01%
Moss Green	1"	25	55	23	11	14	24	0.48	2.72	0.36	0.31	81	255	0.01%
Tahoe Blue	1"	25	57	23	10	14	24	0.48	2.72	0.36	0.31	81	255	0.02%
Mojave Bronze	1"	25	48	24	9	13	23	0.48	2.72	0.38	0.33	84	264	0.01%
Carmel Gray	1"	25	43	22	9	13	23	0.48	2.72	0.36	0.31	80	253	0.02%
All of the tinted laminates are made using a clear outer lite and a tinted inside lite.														
*IP = Imperial Unit (English). SI = System International (Metric).														
¹ Based on E. I. duPont de Nemours and Company data for 1/4" laminated with .030 pvb inner layer.														
² Based upon Solutia Safflex® data for a nominal 1/2" clear laminated with .76 PVB inner layer.														
³ Glass spectral data used for Clear Low-iron, Clear, Sierra Green, Tahoe Blue, Mojave Bronze, Carmel Gray, and Graylite 14 is that for PPG Industries Clear, Starphire®, Solex®, Azurlite®, Solarbronze®, Solargray®, and Graylite® 14.														
⁴ Glass spectral data used for Clear Low-e and Moss Green is that for Libbey Owens Ford Energy Advantage® Low-e and EverGreen™.														
⁵ Glass spectral data used for Pacific Blue is that for Visteon Versalux Blue.														
⁶ Glass spectral data used for Low-reflectance Low-iron and Low-reflectance Clear is that for Schott Corporation, Amiran®.														
⁷ Glass spectral data used for "Clear with Soft-coat Low-e" is that for PPG Solarban 60.														
All performance information is calculated using Lawrence Berkeley Laboratories Window 4.1 analysis program with 2002 spectral data.														
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