

Product portfolio for laminators

Architectural Glazing

Laminated glass interlayers



kuraray

Trosifol®

SentryGlas®

Introduction

Interlayer strength, depth and capabilities

Delivering your window into the world of advanced interlayers for laminated safety glass, Kuraray's Advanced Interlayer Business is underpinned by decades of innovation, application knowledge, domain experience and market success.

OUR ADVANCED INTERLAYER PORTFOLIO – comprising Trosifol® PVB and SentryGlas® ionoplast interlayers – has continually revolutionized aesthetic, structural and functional design, fabrication and installation in the architectural and automotive/transportation segments.

Designed to benefit consumers, society and industry, our products are advancing the functionality of glass, while our engineers and consultants are setting new application benchmarks by collaborating on solutions that both sustain and inspire.

We are committed to helping you transform your mindset and take your applications to the next level – aesthetically, functionally and structurally. Enjoy greater design freedom and give your glazing strength, clarity, character and purpose with solutions that cover safety, security, sound insulation, UV/solar/energy management, color and print.





Photo: © Ren Hull / Kuraray

📍 Seminole Hard Rock Hotel & Casino, Hollywood, Florida

OUR DIVERSE PRODUCT RANGE, the broadest on the global market and our domain expertise create strength; and we channel this strength into helping you succeed. We strive to be your strongest ally and supporter and will help you navigate and conquer the ever-changing demands of the global glass industry. Worldwide production, R&D and support, means we are always by your side... no matter where you are.



Photo: © Gazprom

📍 Lakhta Tower

Product lines

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 College Football Hall of Fame, Atlanta, USA

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Safety Interlayers

Transparency and safety

SAFETY INTERLAYERS – HIGHLIGHTS

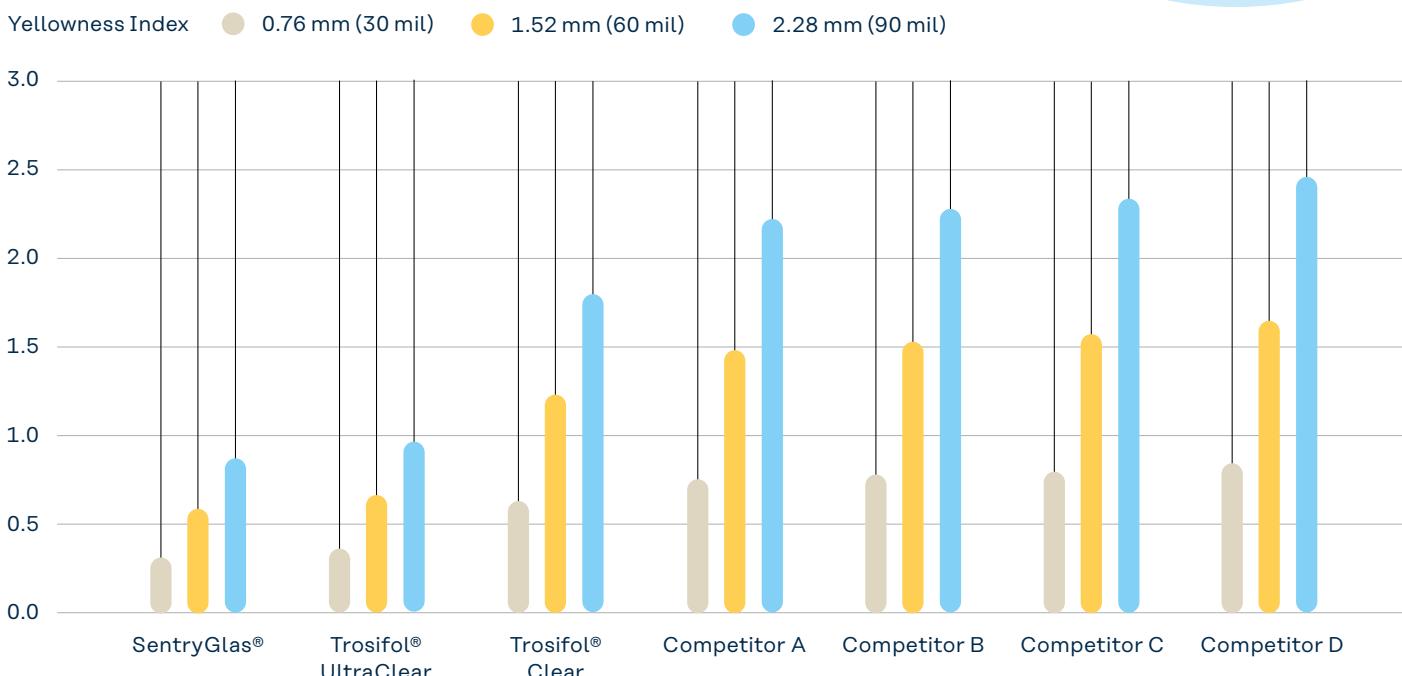
- World market leader in the architectural sector
- Lowest Yellowness Index of all PVB films in the market
- Trosifol® PVB films available with different degrees of adhesion levels
- Exclusive manufacturer of SentryGlas® ionplast interlayers

APPLICATIONS & RECOMMENDATIONS

- For laminated safety glass products made of heat-strengthened or fully tempered glass, we recommend high adhesion, e.g. Trosifol® UltraClear and Trosifol® Clear with J adhesion.
- If there is a need for high adhesion on open edges we recommend Trosifol® UltraClear or SentryGlas®.



Yellowness Index for Trosifol®, SentryGlas® and competitors



TECHNICAL DATA SAFETY

Safety Interlayers – physical properties

Type	Adhesion	Film thickness [mm] [mil]	Color	Light transmittance* [%]	UV transmittance* [%]	Solar absorption* [%]
Trosifol® Clear	medium	0.38 15	Clear	88	< 2	18
Trosifol® Clear	low	0.76 30	Clear	88	< 1	19
Trosifol® Clear	medium	1.14 45	Clear	88	< 1	20
Trosifol® Clear	medium	1.52 60	Clear	88	< 0.5	21
Trosifol® Clear	medium	2.28 90	Clear	88	< 0.5	22
Trosifol® UltraClear	high	0.76 30	UltraClear	88	< 1	20
Trosifol® UltraClear	high	1.14 45	UltraClear	88	< 1	20
Trosifol® UltraClear	high	1.52 60	UltraClear	88	< 0.5	21

TAB 1 • * LSG with 2x4 mm Floatglass according EN 410/ISO 9050 · Further light, solar and heat parameters can be calculated with WinSLT App.
Trosifol® Clear = L Adhesion/M Adhesion · Trosifol® UltraClear = N Adhesion



Safety Interlayers – dimensions

Type	Adhesion	Film thickness [mm] [mil]	Roll widths** [mm] [in]	Roll length refrigerated [m] [ft]	Roll length PE interleaved [m] [ft]
Trosifol® Clear	medium	0.38 15	600-3300 24-130	500/1000 1640/3281	400 1312
Trosifol® Clear	low	0.76 30	600-3300 24-130	250/500 820/1640	250 820
Trosifol® Clear	medium	1.14 45	600-3300 24-130	150/330 492/1082	150 492
Trosifol® Clear	medium	1.52 60	600-3300 24-130	125/250 410/820	125 410
Trosifol® Clear	medium	2.28 90	600-3300 24-130	95/177 312/580	95 312
Trosifol® UltraClear	high	0.76 30	600-3300 24-130	250/500 820/1640	250 820
Trosifol® UltraClear	high	1.14 45	600-3300 24-130	150/330 492/1082	150 492
Trosifol® UltraClear	high	1.52 60	600-3300 24-130	125/250 410/820	125 410

TAB 2 • ** Only available in standard width. Other sizes available on request with minimum order quantities and binding purchase commitment.

Not all products are available in all regions.

External yellowness specification for architects and engineers

Film thickness [mm] [mil]	Trosifol® UltraClear	Trosifol® Clear	SentryGlas®
0.76 30	≤ 0.4	< 1.0	≤ 0.3
1.52 60	≤ 0.8	< 2.0	≤ 0.6
2.28 90	≤ 1.2	< 3.0	≤ 1.0
7.6 300	≤ 4.0	< 10.0	< 3.0

TAB 3 • Measured between 2x2 mm low iron glass



Photo: © Read Jones Christofferson Ltd

• Erin Mills Town Centre, Ontario, Canada

Structural and Security Interlayers

Exceptional strength up to 330 cm (130 in)

STRUCTURAL AND SECURITY INTERLAYERS – HIGHLIGHTS

- Extraordinary post-breakage strength
- High film shear modulus
- Excellent edge stability
- Outstanding clarity
- Open edge design thanks to SentryGlas®

APPLICATIONS & RECOMMENDATIONS

- SentryGlas® is the best choice, with over 20 years of outdoor exposure, for open edge applications that require the very best edge durability and optics.
- SentryGlas® is recommended for applications that require the highest structural performance over a broad range of temperatures and loads.
- SentryGlas® Translucent White provides full structural performance along with a translucent white effect for privacy.
- For moderate design temperature we recommend Trosifol® Extra Stiff.
- For elevated design temperature we recommend SentryGlas®.
- SentryGlas® Xtra™ has the best optical performance in very thick laminates.
- We recommend SentryGlas® Xtra™ for multi-ply laminate assemblies as an adhesion promoter is no longer required.

Interlayer performance comparison

Properties	Trosifol® Clear/UltraClear			Trosifol® Extra Stiff			SentryGlas® ionoplast		
	Good	Advanced	Superior	Good	Advanced	Superior	Good	Advanced	Superior
Post breakage performance at room temperature	✓					✓			✓
Post breakage performance at elevated temperature	✓				✓				✓
Structural properties/coupling effect at room temperature	✓					✓			✓
Structural properties/coupling effect at elevated temperature	✓				✓				✓
Clarity		✓*	✓**		✓				✓
Sealant compatibility/edge stability	✓*	✓**		✓					✓

TAB 4 • * Valid for Trosifol® Clear

** Valid for Trosifol® UltraClear

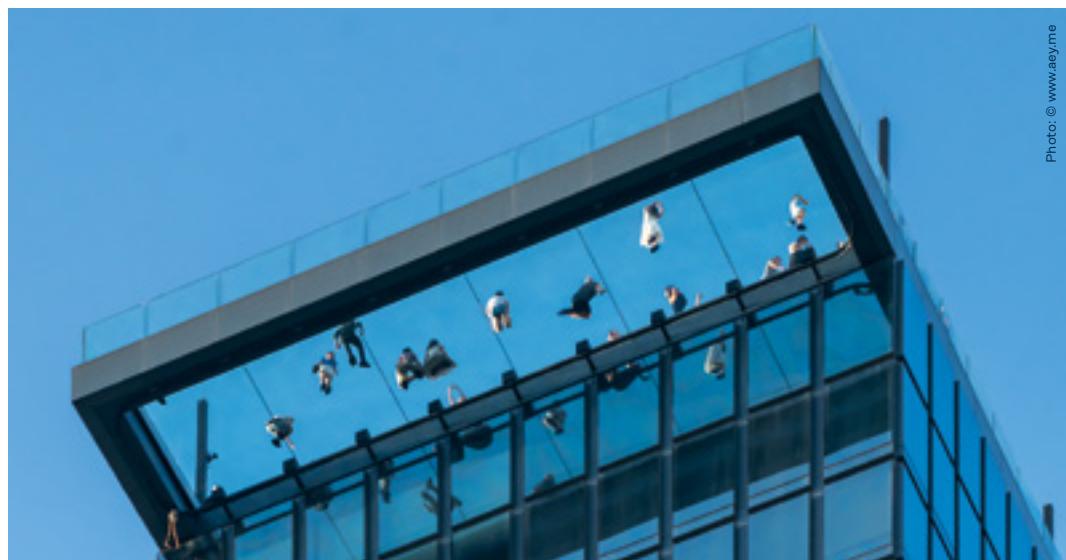


Photo: © www.aeyme

Maha Nakhon, Bangkok, Thailand



Photo: © courtesy of W&W Glass, LLC

American Dream Mall, East Rutherford, New Jersey

TECHNICAL DATA STRUCTURAL & SECURITY

Shear Relaxation Modulus G(t)/ MPa

Tempera- ture	Product type	Load duration											
		3 sec	30 sec	1 min	5 min	30 min	1 hour	1 day	5 days	3 weeks	1 month	1 year	10 years
10°C (50°F)	Trosifol® Clear/UltraClear	66	31	23	10	3.5	2.4	0.69	0.53	0.47	0.46	0.37	0.28
	Trosifol® SC Monolayer	3.1	1.1	0.90	0.61	0.48	0.45	0.34	0.28	0.22	0.21	0.11	0.042
	Trosifol® SC Multilayer	1.3	1.1	0.94	0.65	0.45	0.41	0.30	0.23	0.17	0.16	0.060	
	Trosifol® Extra Stiff	350	270	240	170	110	85	16	4.7	1.9	1.6	0.86	0.70
	SentryGlas®	236	228	225	220	217	206	190	178	172	171	161	153
	SentryGlas® Xtra™	179	172	170	161	126	120	67.2	46.6	36.8	34.1	22.6	16.5
20°C (68°F)	Trosifol® Clear/UltraClear	6.6	1.7	1.2	0.74	0.54	0.50	0.39	0.33	0.27	0.26	0.14	0.063
	Trosifol® SC Monolayer	0.66	0.47	0.45	0.39	0.33	0.30	0.17	0.11	0.063	0.056		
	Trosifol® SC Multilayer	1.0	0.58	0.50	0.40	0.34	0.32	0.18	0.11	0.065	0.057		
	Trosifol® Extra Stiff	240	140	120	67	26	17	1.8	1.0	0.84	0.81	0.66	0.56
	SentryGlas®	211	206	192	188	175	169	146	130	115	112	96.5	86.6
	SentryGlas® Xtra™	155	131	125	120	100	80.1	39.9	29.5	21.2	18.4	11.1	6.69
25°C (77°F)	Trosifol® Clear/UltraClear	1.5	0.69	0.61	0.50	0.43	0.41	0.29	0.22	0.15	0.14	0.056	
	Trosifol® SC Monolayer	0.50	0.41	0.38	0.33	0.26	0.23	0.10	0.054	0.027	0.024		
	Trosifol® SC Multilayer	0.75	0.45	0.42	0.36	0.29	0.27	0.13	0.068	0.034	0.029		
	Trosifol® Extra Stiff	150	70	51	20	5.4	3.3	0.94	0.78	0.69	0.68	0.56	0.43
	SentryGlas®	167	149	142	117	106	101	80.5	60.8	45.1	42.4	32.1	24.3
	SentryGlas® Xtra™	136	115	97.9	80.4	45.8	37.2	18.6	15.4	11.1	10.5	5.61	3.31
30°C (86°F)	Trosifol® Clear/UltraClear	0.69	0.50	0.47	0.41	0.35	0.33	0.19	0.12	0.070	0.062		
	Trosifol® SC Monolayer	0.43	0.35	0.33	0.26	0.19	0.16	0.054	0.025				
	Trosifol® SC Multilayer	0.54	0.39	0.37	0.31	0.24	0.21	0.078	0.036				
	Trosifol® Extra Stiff	44	10	5.8	2.0	1.0	0.92	0.68	0.61	0.54	0.53	0.37	0.21
	SentryGlas®	141	119	110	83	66	60	50	24.7	12.9	11.6	6.8	5.31
	SentryGlas® Xtra™	101	84.8	80.1	55.1	38.2	26.0	8.97	7.13	5.54	5.17	3.07	1.98
35°C (95°F)	Trosifol® Clear/UltraClear	0.51	0.42	0.40	0.35	0.27	0.24	0.10	0.057				
	Trosifol® SC Monolayer	0.38	0.30	0.27	0.20	0.13	0.11	0.027					
	Trosifol® SC Multilayer	0.43	0.34	0.32	0.26	0.18	0.15	0.041					
	Trosifol® Extra Stiff	5.7	1.4	1.1	0.85	0.72	0.69	0.54	0.45	0.36	0.34	0.17	
	SentryGlas®	102	77.7	70.5	53.4	37.9	34.7	20.3	12.4	8.31	7.45	4.95	4.11
	SentryGlas® Xtra™	70.3	55.1	44.9	29.0	13.5	10.0	3.31	2.76	2.32	2.15	1.51	1.05
40°C (104°F)	Trosifol® Clear/UltraClear	0.44	0.37	0.34	0.28	0.20	0.16	0.054					
	Trosifol® SC Monolayer	0.34	0.25	0.22	0.15	0.089	0.068						
	Trosifol® SC Multilayer	0.36	0.28	0.25	0.18	0.10	0.079						
	Trosifol® Extra Stiff	1.3	0.83	0.77	0.68	0.60	0.57	0.39	0.28	0.18	0.17		
	SentryGlas®	63	37	31	19	11.4	9.3	4.5	3.6	3.4	3.3	3.1	2.9
	SentryGlas® Xtra™	46.3	33.1	27.0	15.0	6.99	5.20	1.86	1.57	1.19	1.11	0.70	0.47
50°C (122°F)	Trosifol® Clear/UltraClear	0.36	0.26	0.23	0.16	0.089	0.068						
	Trosifol® SC Monolayer	0.27	0.17	0.14	0.087	0.041	0.029						
	Trosifol® SC Multilayer	0.28	0.18	0.15	0.084	0.036	0.025						
	Trosifol® Extra Stiff	0.72	0.61	0.58	0.50	0.38	0.34	0.13					
	SentryGlas®	26.4	13.5	11.3	7.31	4.9	4.2	2.8	2.4	2.2	2.2	2	
	SentryGlas® Xtra™	12.7	4.90	3.89	2.71	2.00	1.70	1.05	0.92	0.61	0.54	0.43	0.23
60°C (140°F)	Trosifol® Clear/UltraClear	0.27	0.17	0.14	0.081								
	Trosifol® SC Monolayer	0.22	0.12	0.10	0.052								
	Trosifol® SC Multilayer	0.20	0.10	0.07	0.036								
	Trosifol® Extra Stiff	0.60	0.47	0.43	0.33	0.21	0.16						
	SentryGlas®	8.2	4.3	3.6	2.6	1.9	1.7	1.3	1.2	1.1	1.1	1.0	0.97
	SentryGlas® Xtra™	3.78	2.15	1.88	1.40	1.00	0.90	0.58	0.40	0.31	0.28	0.18	0.12
70°C (158°F)	Trosifol® Clear/UltraClear	0.21	0.11	0.088	0.047								
	Trosifol® SC Monolayer	0.16	0.076	0.058	0.027								
	Trosifol® SC Multilayer	0.13	0.054	0.039									
	Trosifol® Extra Stiff	0.48	0.33	0.28	0.18								
	SentryGlas®	2.9	2	1.9	1.4	1.0	0.8	0.6	0.5	0.5	0.5	0.5	
	SentryGlas® Xtra™	1.73	1.05	0.90	0.68	0.45	0.40	0.24	0.17	0.12	0.11	0.07	0.05
80°C (176°F)	Trosifol® Clear/UltraClear	0.16	0.074	0.056									
	Trosifol® SC Monolayer	0.11	0.047	0.033									
	Trosifol® SC Multilayer	0.10	0.034	0.023									
	Trosifol® Extra Stiff	0.36	0.20	0.16									
	SentryGlas®	1.3	1.0	0.8	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.2	
	SentryGlas® Xtra™	0.27	0.10	0.09	0.06	0.04	0.04	0.02	0.01				

TAB 5 G(t) data were determined by Dynamic Mechanical-Analysis in accordance to EN ISO 6721 within the linear range of deformation. All samples were stored at 23°C for 4 weeks before measurement. G(t) data were experimentally verified by 4-Point-Bend-Tests on laminated glass following prEN 16613 at third party labs for selected time-load combinations.

Young Relaxation Modulus E(t)/MPa

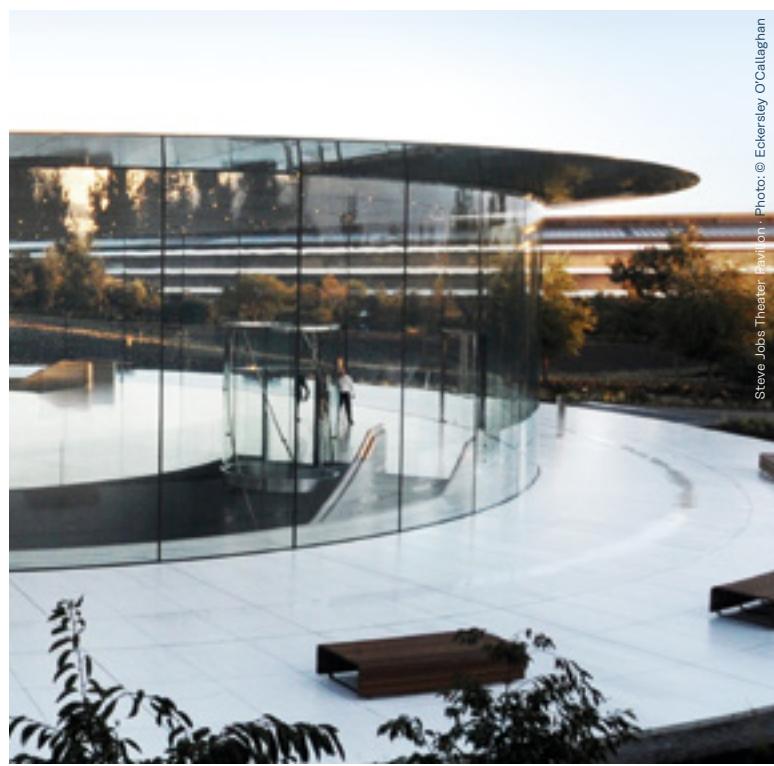
Tempera- ture	Product type	Load duration											
		3 sec	30 sec	1 min	5 min	30 min	1 hour	1 day	5 days	3 weeks	1 month	1 year	10 years
10°C (50°F)	Trosifol® Clear/UltraClear	200	92	69	31	11	7.0	2.1	1.6	1.4	1.4	1.1	0.83
	Trosifol® SC Monolayer	9.1	3.4	2.7	1.8	1.4	1.3	1.0	0.83	0.66	0.62	0.32	0.13
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	1000	780	700	510	310	250	46	14	5.5	4.7	2.5	2.1
	SentryGlas®	681	661	651	638	629	597	553	516	498	499	467	448
	SentryGlas® Xtra™	530	509	503	477	373	355	199	138	109	101	66.9	48.8
20°C (68°F)	Trosifol® Clear/UltraClear	20	5.1	3.7	2.2	1.6	1.5	1.2	0.98	0.80	0.77	0.42	0.19
	Trosifol® SC Monolayer	2.0	1.4	1.3	1.2	0.98	0.90	0.50	0.32	0.19	0.17		
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	690	420	350	200	77	50	5.4	3.1	2.5	2.4	1.9	1.6
	SentryGlas®	612	602	567	549	511	493	428	380	336	330	282	256
	SentryGlas® Xtra™	459	389	370	355	296	237	118	87.3	62.8	54.4	32.9	19.8
25°C (77°F)	Trosifol® Clear/UltraClear	4.4	2.1	1.8	1.5	1.3	1.2	0.86	0.65	0.46	0.42	0.17	
	Trosifol® SC Monolayer	1.5	1.2	1.1	0.97	0.76	0.68	0.30	0.16	0.080	0.072		
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	430	210	150	59	16	9.6	2.8	2.3	2.0	2.0	1.7	1.3
	SentryGlas®	485	433	413	340	308	294	234	177	131	123	93.3	70.6
	SentryGlas® Xtra™	403	340	289	238	136	110	55.1	45.6	32.9	31.4	16.6	9.80
30°C (86°F)	Trosifol® Clear/UltraClear	2.1	1.5	1.4	1.2	1.0	0.97	0.56	0.35	0.21	0.19		
	Trosifol® SC Monolayer	1.3	1.0	0.97	0.78	0.56	0.47	0.16	0.075				
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	130	29	17	5.8	3.0	2.7	2.0	1.8	1.6	1.5	1.1	0.62
	SentryGlas®	413	349	324	243	194	178	146	72	38	35	20.3	15
	SentryGlas® Xtra™	299	250	237	163	113	77.0	26.6	21.1	16.4	15.3	9.09	5.86
35°C (95°F)	Trosifol® Clear/UltraClear	1.5	1.3	1.2	1.0	0.81	0.72	0.31	0.17				
	Trosifol® SC Monolayer	1.1	0.89	0.81	0.61	0.39	0.31						
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	17	4.1	3.3	2.5	2.1	2.0	1.6	1.3	1.0	1.0	0.49	
	SentryGlas®	302	230	209	158	122	103	60.1	36.7	24.6	22.1	14.7	12.2
	SentryGlas® Xtra™	208	163	133	85.8	40.0	29.6	9.80	8.17	6.87	6.35	4.47	3.11
40°C (104°F)	Trosifol® Clear/UltraClear	1.3	1.1	1.0	0.82	0.58	0.49	0.16					
	Trosifol® SC Monolayer	1.0	0.75	0.66	0.46	0.26	0.20						
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	3.7	2.4	2.3	2.0	1.8	1.7	1.1	0.81	0.54	0.49		
	SentryGlas®	187	109	91.6	57	34	27.8	13.5	11	10	9.9	9.3	8.84
	SentryGlas® Xtra™	137	98.0	79.9	44.4	20.7	15.4	5.51	4.65	3.52	3.28	2.07	1.39
50°C (122°F)	Trosifol® Clear/UltraClear	1.1	0.78	0.69	0.48	0.27	0.20						
	Trosifol® SC Monolayer	0.80	0.52	0.43	0.26	0.12	0.086						
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	2.1	1.8	1.7	1.5	1.1	1.0	0.4					
	SentryGlas®	78	40	33.8	21.7	14.6	12.6	8.4	7.2	6.5	6.5	6.3	6
	SentryGlas® Xtra™	37.6	14.5	11.5	8.02	5.92	5.03	3.11	2.72	1.81	1.59	1.27	0.68
60°C (140°F)	Trosifol® Clear/UltraClear	0.82	0.51	0.42	0.24								
	Trosifol® SC Monolayer	0.64	0.36	0.29	0.15								
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	1.8	1.4	1.3	0.96	0.60	0.48						
	SentryGlas®	24.5	12.8	10.9	7.6	5.5	5.1	3.8	3.6	3.3	3.3	3	2.9
	SentryGlas® Xtra™	11.2	6.36	5.57	4.14	2.96	2.66	1.72	1.18	0.92	0.84	0.53	0.36
70°C (158°F)	Trosifol® Clear/UltraClear	0.63	0.34	0.26	0.14								
	Trosifol® SC Monolayer	0.47	0.23	0.17	0.080								
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	1.4	0.97	0.83	0.52								
	SentryGlas®	8.8	6.3	5.64	4.2	2.9	2.5	1.8	1.6	1.5	1.5	1.4	1.3
	SentryGlas® Xtra™	5.12	3.11	2.66	2.01	1.33	1.18	0.71	0.49	0.36	0.32	0.21	0.15
80°C (176°F)	Trosifol® Clear/UltraClear	0.48	0.22	0.17									
	Trosifol® SC Monolayer	0.34	0.14	0.099									
	Trosifol® SC Multilayer												
	Trosifol® Extra Stiff	1.1	0.6	0.48									
	SentryGlas®	4.0	2.9	2.5	1.7	1.1	1.0	0.8	0.7	0.6	0.8	0.6	0.5
	SentryGlas® Xtra™	0.80	0.30	0.27	0.18	0.12	0.12	0.06	0.03				

TAB 6 E(t) was calculated according $E(t) = 2 \times G(t) \times (1+v)$ for isotropic materials with: $v = 0.47$ (Trosifol® Extra Stiff), $v = 0.49$ (Trosifol® Clear, Trosifol® SC Monolayer); $v = 0.48$ (SentryGlas®, SentryGlas® Xtra™). The Poisson ratio v was measured in accordance to EN ISO 527 (23°C, 30% r. H.). If numerical simulation tools (FEA) require E(t) data for Trosifol® SC Multilayer, these data can be calculated using $E(t) = 2 \times G(t) \times (1+v)$ with: $v = 0.49$. This is the closest approximation available and validation tests did show that it gives conservative E modulus values.

Conversion table MPa to kpsi

MPa	kpsi	MPa	kpsi
10	1.450	90	13.053
15	2.175	100	14.503
20	2.900	200	29.007
25	3.625	300	43.511
30	4.351	400	58.015
35	5.076	500	72.519
40	5.801	600	87.023
45	6.526	700	101.526
50	7.251	800	116.030
60	8.702	900	130.534
70	10.513	1000	145.037
80	11.603	1100	159.542

TAB 7 •



• Steve Jobs Theater Pavilion, Cupertino, USA

Steve Jobs Theater Pavilion | Photo: © Eckersley O'Callaghan

Structural & Security Interlayers* – physical properties

Type	Adhesion	Film thickness [mm] [mil]	Color	Light transmittance*¹ [%]	UV transmittance*¹ [%]	Solar absorption*¹ [%]
Trosifol® Extra Stiff	high	0.76 30	Clear	88	< 1	20
SentryGlas®	high	0.76 30	Clear	88	< 1	19
SentryGlas®	high	0.89 35	Clear	88	< 1	19
SentryGlas®	high	1.52 60	Clear	88	< 1	20
SentryGlas®	high	2.28 90	Clear	88	< 1	21
SentryGlas® Translucent White	high	0.80 31	Translucent White	76	43	26
SentryGlas® Xtra™	high	0.76 30	Clear	88	< 1	16
SentryGlas® Xtra™	high	0.89 35	Clear	88	< 1	20
SentryGlas® Xtra™	high	1.52 60	Clear	88	< 1	21
SentryGlas® Xtra™	high	2.28 90	Clear	88	< 1	22
SentryGlas® Xtra™	high	2.53 100	Clear	88	< 1	22

TAB 8 • * LSG with 2 x 4 mm Floatglass according EN 410/ISO 9050

*¹ Values calculated using Lawrence Berkeley National Laboratory Optics5 and Windows5 software.

Not all products are available in all regions.



TROSIFOL® GLASGLOBAL
For performing structural analysis
for glass.



TROSIFOL® WINSLT
For calculating the light, solar and
heat parameters of glazing specifically
containing films from the Trosifol®
& SentryGlas® product range.

Structural & Security Interlayers* – dimensions for products on rolls

Type	Thickness [mm] [mil]	Color	Roll widths [mm]	Roll widths [in]	Roll lengths [m] [ft]
Trosifol® Extra Stiff	0.76 30	Clear	1000-3210	39-126	250 820
SentryGlas®/ SGX™ *1	0.76 30	Clear	1050-3300*2	41-130*2	250 820
SentryGlas®	0.76 30	Clear	1530	60	50 164
SentryGlas®/SGX™	0.76 30	Clear	1050-3300*2	41-130*2	60 197
SentryGlas®/SGX™	0.89 35	Clear	1220-3300*2	48-130*2	200 656
SentryGlas®/SGX™	0.89 35	Clear	1530-3300*2	60-130*2	50 164
SentryGlas® Translucent White	0.80 31	Transl. White	1220/1830 1530/3300	48/72 60/130	200 656 200/50 656/164

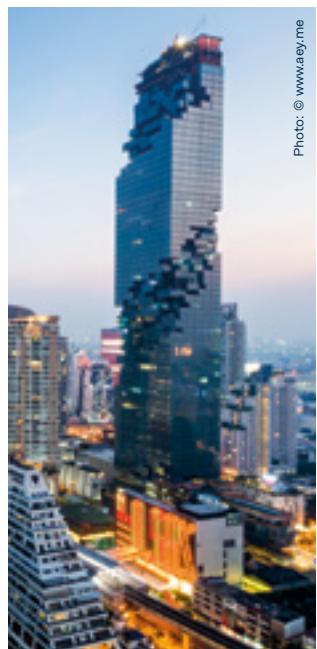
TAB 9 ➔ *1 SGX™ = SentryGlas® Xtra™

*2 Only available in standard width. Other sizes available on request with minimum order quantities and binding purchase commitment.

Structural & Security Interlayers* – dimensions for sheet products

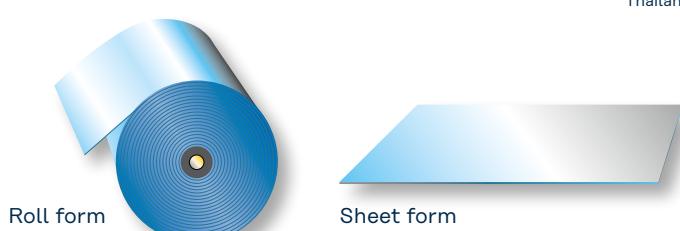
Type	Thickness [mm] [mil]	Sheet widths [mm]	Sheet widths [in]	Sheet lengths [m] [ft]
SentryGlas®	0.89 35	610-2160*3	24-85*3	6 19
SentryGlas®	1.52 60	610-2160*3	24-85*3	6 19
SentryGlas®	2.28 90	610-2160*3	24-85*3	6 19
SentryGlas®	2.53 100	610-1830	24-72	6 19
SentryGlas®	3.04 120	610-1830	24-73	6 19
SentryGlas® Xtra™	0.89 35	610-2160*3	24-85*3	6 19
SentryGlas® Xtra™	1.52 60	610-2160*3	24-85*3	6 19
SentryGlas® Xtra™	2.28 90	610-2160*3	24-85*3	6 19
SentryGlas® Xtra™	2.53 100	610-2160*3	24-85*3	6 19

TAB 10 ➔ *3 Oversize shipment possible up to 2500 mm/99 inches



➔ King Power Mahanakhon, Bangkok, Thailand

➔ * The table shows the global product program.
Not all products are available in all regions.



Sound Control Interlayers

Customized sound insulation

ACOUSTIC INTERLAYERS – HIGHLIGHTS

- Sole supplier of mono- and multilayer PVB for the Acoustic Glazing market
- R_w or STC/OITC values of 50 dB and better in insulated glass

APPLICATIONS & RECOMMENDATIONS

- Thanks to its high adhesive strength, Trosifol® SC Monolayer is particularly suitable for laying between plies of heat-strengthened or fully tempered glass.
- Trosifol® SC Multilayer is ideal for achieving impact resistance level P2A conforming to EN 356.
- Trosifol® SC Multilayer can be combined with other Trosifol® products.
- Best optical properties in terms of orange peel with Trosifol® SC Monolayer.
- Laminated safety glass containing a Trosifol® SC Monolayer / Trosifol® SC Multilayer has up to 3 dB better sound insulation than the same construction with standard PVB film.



TECHNICAL DATA – SOUND CONTROL

Acoustic Interlayers – physical properties

Type	Adhesion	Film thickness [mm] [mil]	Color	Light transmittance* [%]	UV transmittance* [%]	Solar absorption* [%]
Trosifol® SC Monolayer	high	0.76 30	Clear	88	< 1	19
Trosifol® SC Monolayer	high	1.52 60	Clear	88	< 0.5	21
Trosifol® SC Multilayer	low	0.50 20	Clear	88	< 1	20
Trosifol® SC Multilayer	low	0.76 30	Clear	88	< 1	20

TAB 11 • * LSG with 2 x 4 mm Floatglass according EN 410/ISO 9050



Acoustic Interlayers – dimensions

Type	Film thickness [mm] [mil]	Roll widths [mm] [in]	Roll length refrigerated [m] [ft]	Roll length PE interleaved [m] [ft]
Trosifol® SC Monolayer	0.76 30	1000-3210* 39-126*	– –	230/450 754/1476
Trosifol® SC Monolayer	1.52 60	1000-3210* 39-126*	– –	100 328
Trosifol® SC Multilayer	0.50 20	3210 126	350/700 1148/2296	370/700 1214/2296
Trosifol® SC Multilayer	0.76 30	1000-3210* 39-126*	470 1542	230 754

TAB 12 • * Only available in standard width. Other sizes available on request with minimum order quantities and binding purchase commitment.

Not all products are available in all regions.

**SOUNDLAB AI**

First global acoustic calculator based on artificial intelligence for calculating/estimating acoustic performance of monolithic, double and triple glazed units.

0.76 mm (30 mil) Monolayer products – test results

Glass [mm]	Cavity air or argon [mm]	Glass [mm]	Cavity [mm]	Glass [mm]	R _w [dB]	C, C _{tr} [dB]	STC	OITC
3 SC Mono* 0.76 3					35	(-1/-4)	35	30
4 SC Mono 0.76 4					37	(-1/-3)	37	32
5 SC Mono 0.76 5					38	(0/-2)	38	34
6 SC Mono 0.76 6					39	(0/-2)	39	35
8 SC Mono 0.76 8					41	(-1/-3)	41	37
10 SC Mono 0.76 10					42	(0/-3)	42	38
12 SC Mono 0.76 12					43	(0/-3)	43	39
4 SC Mono 0.76 4	16	4			39	(-1/-5)	39	31
4 SC Mono 0.76 4	16	6			41	(-2/-6)	41	33
4 SC Mono 0.76 4	16	8			42	(-3/-8)	42	31
6 SC Mono 0.76 6	16	8			43	(-2/-6)	43	34
4 SC Mono 0.76 4	16	10			44	(-2/-6)	44	35
4 SC Mono 0.76 4	16	6 SC Mono 0.76 6			47	(-2/-6)	48	37
4 SC Mono 0.76 4	20	6 SC Mono 0.76 6			49	(-2/-7)	49	38
4 SC Mono 0.76 4	12	4	12	6	41	(-2/-6)	41	32
4 SC Mono 0.76 4	12	4	12	8	42	(-2/-6)	42	33
4 SC Mono 0.76 4	12	6	12	4 SC Mono 0.76 6	47	(-2/-7)	47	38

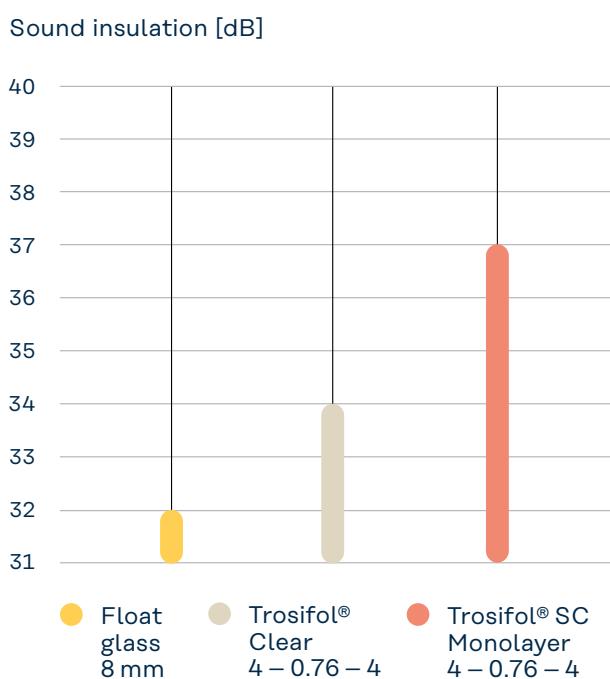
TAB 13 • *SC Mono = Trosifol® SC Monolayer

0.50 mm (20 mil) Multilayer products – test results

Glass [mm]	Cavity air or argon [mm]	Glass [mm]	Cavity [mm]	Glass [mm]	R _w [dB]	C, C _{tr} [dB]	STC	OITC
3 SC Multi** 0.50 3					36	(-1/-4)	35	30
4 SC Multi 0.50 4					37	(0/-2)	37	33
5 SC Multi 0.50 5					39	(-1/-3)	38	35
6 SC Multi 0.50 6					40	(-1/-3)	40	36
8 SC Multi 0.50 8					41	(0/-2)	41	38

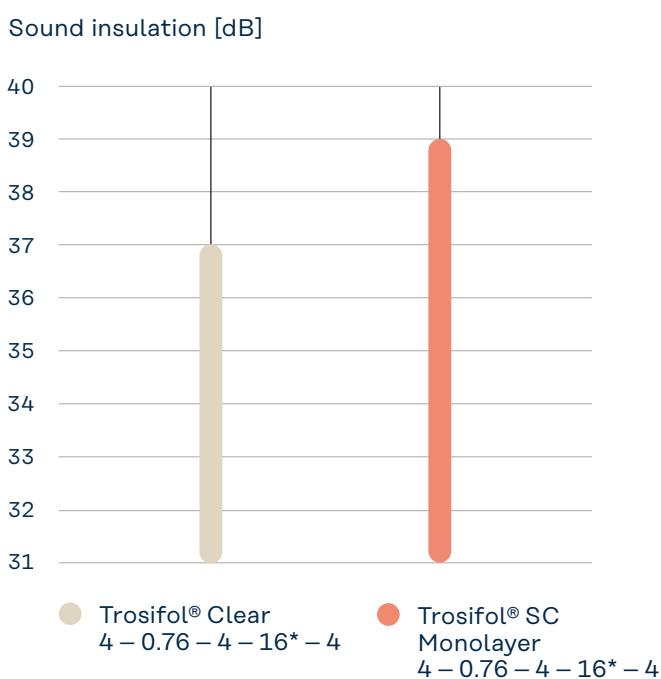
TAB 14 • ** SC Multi = Trosifol® SC Multilayer

Sound insulation with monolithic glass



GRAPH 2 • 0.76 mm = 30 mil

Sound insulation with multiple insulating glass



GRAPH 3 • * Argon filling

0.76 mm (30 mil) Multilayer products – test results

Glass [mm]	Cavity air or argon [mm]	Glass [mm]	Cavity [mm]	Glass [mm]	R _w [dB]	C, C _{tr} [dB]	STC	OITC
3 SC Multi** 0.76 3					36	(-1/-4)	36	30*
4 SC Multi 0.76 4					37	(0/-2)	37	33
5 SC Multi 0.76 5					38	(-1/-3)	38	33*
6 SC Multi 0.76 6					40	(-1/-3)	39	36*
8 SC Multi 0.76 8					41	(-1/-3)	41	37*
10 SC Multi 0.76 10					42	(-1/-3)	42	38
12 SC Multi 0.76 12					43	(-1/-3)	43	39
3 SC Multi 0.76 3	16	4			36	(-2/-6)	36	28
3 SC Multi 0.76 3	16	6			40	(-2/-6)	40	31
3 SC Multi 0.76 3	16	8			42	(-3/-7)	42	32
4 SC Multi 0.76 4	16	4			39	(-3/-7)	37	30*
4 SC Multi 0.76 4	16	6			41	(-2/-6)	41	33*
4 SC Multi 0.76 4	16	8			42	(-3/-8)	42	31*
6 SC Multi 0.76 6	16	8			43	(-2/-6)	43	34
4 SC Multi 0.76 4	16	10			44	(-2/-6)	44	36
4 SC Multi 0.76 4	20	10			46	(-2/-6)	46	37
6 SC Multi 0.76 6	16	10			44	(-1/-5)	44	36
4 SC Multi 0.76 4	16	6 SC Multi 0.76 6			48	(-2/-7)	48	38*
4 SC Multi 0.76 4	20	6 SC Multi 0.76 6			49	(-2/-7)	49	38*
8 SC Multi 0.76 6	16	6 SC Multi 0.76 6			51	(-2/-6)	51	42
8 SC Multi 0.76 8	16	6 SC Multi 0.76 6			51	(-1/-6)	51	42
8 SC Multi 0.76 8	24	4 SC Multi 0.76 6			52	(-2/-6)	51	44*
4 SC Multi 0.76 4	12	4	12	6	42	(-3/-8)	41	30
4 SC Multi 0.76 4	14	4	14	6	43	(-2/-7)	44	33
4 SC Multi 0.76 4	12	4	12	8	43	(-2/-7)	43	33
4 SC Multi 0.76 4	16	4	16	8	45	(-3/-7)	45	34
5 SC Multi 0.76 5	12	6	12	8	44	(-2/-7)	44	35
6 SC Multi 0.76 6	12	6	12	8	45	(-1/-5)	46	37
6 SC Multi 0.76 6	14	6	14	8	46	(-2/-6)	46	38
4 SC Multi 0.76 4	12	4	12	4 SC Multi 0.76 4	46	(-2/-7)	47	35
4 SC Multi 0.76 4	12	6	12	4 SC Multi 0.76 6	47	(-2/-7)	47	37
6 SC Multi 0.76 6	12	6	12	4 SC Multi 0.76 4	49	(-1/-7)	50	39
6 SC Multi 0.76 6	14	6	14	4 SC Multi 0.76 4	50	(-2/-7)	51	40





Samples

Decorative Interlayers

Brilliant colors

DECORATIVE INTERLAYERS – HIGHLIGHTS

- Interior and exterior applications thanks to outstanding fastness
- Opaque Trosifol® Diamond White
- Totally opaque Trosifol® Brilliant Black
- Different degrees of translucency in the white color range

APPLICATIONS & RECOMMENDATIONS

- For total opacity, we recommend Trosifol® Brilliant Black.
- With strong colors, high color intensity is achieved with just a single film in the glass module, making further layers unnecessary.
- To achieve the same effects as body tinted glass, we recommend the tinted colors.

TECHNICAL DATA – DECORATIVE

Decorative Interlayers – physical properties

Product	Adhesion	Film thickness [mm] [mil]		Color code	RAL code	Light transmittance* [%]	UV transmittance* [%]	Solar absorption* [%]
Tints								
 Trosifol® Light Blue-Green	medium	0.38 ¹	15 ¹	84073	6034	71	< 1	29
 Trosifol® Bronze	medium	0.76	30	36038	8002	36	< 1	55
 Trosifol® Medium Bronze	medium	0.38 ¹	15 ¹	31052	8025	55	< 1	42
 Trosifol® Light Brown	medium	0.38	15	S4055	7002	54	< 1	44
 Trosifol® Medium Brown	medium	0.38	15	S6028	8014	22	< 1	69
 Trosifol® Grey	medium	0.38 ¹	15 ¹	66044	7015	42	< 1	47
 Trosifol® Asahi Grey	medium	0.38	15	65042	7031	38	< 1	51
 Trosifol® Solar Grey	medium	0.76	30	1654400	7024	42	< 1	-
Black & White								
 Trosifol® Brilliant Black	high	0.76	30	S00	9005	0	< 1	96
 Trosifol® Diamond White	high	0.76	30	W00	9003	0	< 1	95
 Trosifol® Shining White	high	0.38	15	W17	9002	21	< 1	73
 Trosifol® Translucent White	medium/ low	0.76 ²	30 ²	W3065	9002	70	< 1	36
 Trosifol® Translucent White	high	0.76	30	W3065	9002	70	< 1	36
 Trosifol® Sand White	medium	0.38	15	W4071	9002	78	< 1	27
 SentryGlas® Translucent White	high	0.80	31	-	9002	76	43	26

TAB 16 ⓘ ¹ Product also available as 0.76 mm (30 mil) version with comparable optics and enhanced safety features.

² Product also available as 0.38 mm (15 mil) version with comparable optics.

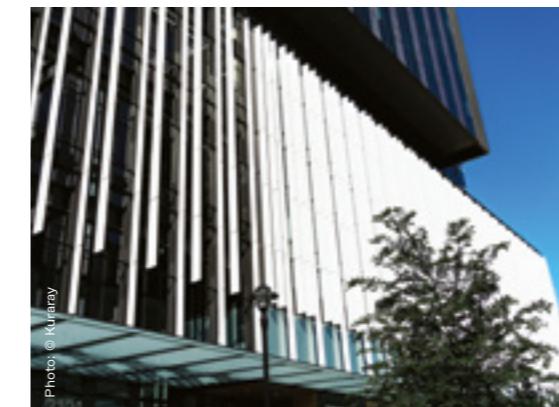
The Color samples are merely intended as illustration and inadequately represent the real colors. Custom colors are available on request.

* All data measured in accordance with EN 410 (2011)/ISO 9050 on laminated safety glass with 4 mm – 0.38 mm PVB – 4 mm float glass. All Color types meet the requirements of EN ISO 12543. If used in exterior applications or combined with radiation sources, the energy absorption of the glass combination must be borne in mind.

Not all products are available in all regions.



● Frankfurt Airport Terminal 1, Germany



● New Headquarters Building, Seattle, USA

Decorative Interlayers – dimensions

Product	Film thickness [mm]	Film thickness [mil]	Roll widths [mm]	Roll widths [in]	Roll lengths refrigerated [m]	Roll lengths refrigerated [ft]	Roll lengths PE interleaf [m]	Roll lengths PE interleaf [ft]
Tints								
Trosifol® Light Blue-Green	0.38 0.76* ¹	15 30* ¹	1000-3210* ²	39-126* ²	400/500 200/250	1312/1640 656/250	400 200	1312 656
Trosifol® Bronze	0.76	30	1000-3210* ²	39-126* ²	200	656	200	656
Trosifol® Medium Bronze	0.38* ¹	15* ¹	1000-3210* ²	39-126* ²	400	1312	400	1312
Trosifol® Light Brown	0.38	15	1000-3210* ²	39-126* ²	400	1312	400	1312
Trosifol® Medium Brown	0.38	15	1000-3210* ²	39-126* ²	400	1312	400	1312
Trosifol® Grey	0.38 0.76	15 30	1000-3210* ²	39-126* ²	400/500 200/250	1312/1640 656/820	400 200	1312 656
Trosifol® Asahi Grey	0.38	15	1000-3210* ²	39-126* ²	400	1312	400	1312
Trosifol® Solar Grey	0.76	30						
Black & White								
Trosifol® Brilliant Black	0.76	30	1000/1600/2250	39/63/88	–	–	60/250	197/820
Trosifol® Diamond White	0.76	30	1000/1600/2250	39/63/88	–	–	60/250	197/820
Trosifol® Shining White	0.38	15	1000/1600/2250	39/63/88	–	–	60/250	197/820
Trosifol® Translucent White	0.38 0.76	15 30	1000-3210* ²	39-126* ²	400/1000 250/500	1312/3280 820/1640	400 200	1312 656
Trosifol® Translucent White	0.76 high adhesion	30	1000-2400* ²	39-94* ²	–	–	250	820
Trosifol® Sand White	0.38	15	1000-3210* ²	39-126* ²	400	1312	400	1312
SentryGlas® Translucent White	0.80	31	1220-3300	48-126	–	–	200 200/50	656 656/164

TAB 17 ● *¹ Product also available as 0.76 mm (30 mil) version with comparable optics and enhanced safety features
 *² Only available in standard width. Other sizes available on request with minimum order quantities and binding purchase commitment.

Not all products are available in all regions.

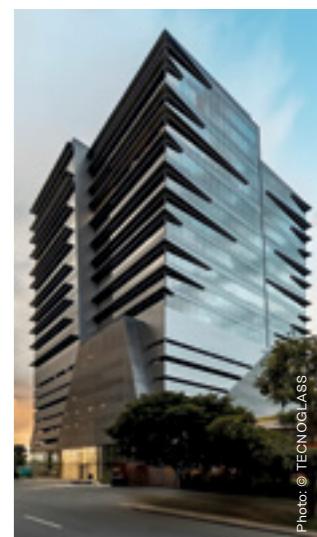


Photo: © TECHNOLASS

Specialized Interlayers

Specialties

SPECIALIZED INTERLAYERS – HIGHLIGHTS

- Autoclave-free processing with Trosifol® HR
- High surface roughness for better deairing with Trosifol® HR
- 0 % UV transmittance up to 400 nm with UV Extra Protect
- Trosifol® XT UltraClear: Special PVB hurricane grade with UltraClear appearance
- Maximum UV transmittance for SentryGlas® Natural UV and Trosifol® Natural UV
- Trosifol® Spallshield® CPET is a hard coated PET film
- Trosifol® PET is a super clear film with pre-treatment on both sides designed for adhering to PVB.

APPLICATIONS & RECOMMENDATIONS

- Trosifol® Natural UV and SentryGlas® Natural UV feature high UV transmittance with applications in greenhouses, zoos and the health sector.
- Complete UV protection Trosifol® UV Extra Protect for museums, shop windows and libraries, for example.
- High surface roughness of Trosifol® HR for better deairing.
- Trosifol® Spallshield® CPET hard-coated PET film helps to stop the showering of small glass particles.
- Trosifol® PET adds strength to the PVB improving both safety and security of the glass laminate.
- All hurricane products require system testing and approval.



Photo: © Anticidio/stock.adobe.com

Specialized Interlayers – physical properties

Type	Adhesion	Film thickness [mm] [mil]	Color	Light transmittance* [%]	UV transmittance* [%]
Trosifol® HR	high	0.76 30	UltraClear	88	< 1
Trosifol® UV Extra Protect	high	0.76 30	Clear	90	0.0
Trosifol® Natural UV* ¹	high	0.76 30	UltraClear	89	48
Trosifol® XT UltraClear	medium-high	2.28 90	UltraClear	88	< 1
SentryGlas® Natural UV* ¹	high	0.89 35	UltraClear	89	46
SentryGlas® Natural UV* ¹	high	1.52 60	UltraClear	88	40
Trosifol® Spallshield® CPET		0.18 7	Clear	91	0.50
Trosifol® PET	high	0.18 7	Clear	87	0.0

TAB 18 • * LSG with 2 x 4 mm Floatglass according EN 410/ISO 9050

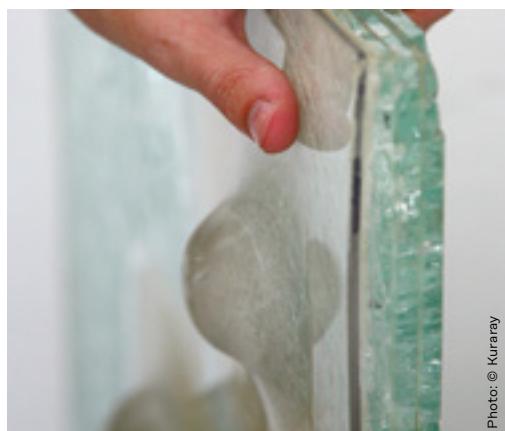
*¹ Values calculated using Lawrence Berkeley National Laboratory Optics5 and Windows5 software.

Specialized Interlayers – dimensions for products on rolls

Type	Thickness [mm] [mil]	Roll widths [mm]	Roll widths [in]	Roll lengths [m] [ft]
Trosifol® HR	0.76 30	1000-3210	39-126	200 656
Trosifol® UV Extra Protect	0.76 30	1000-3210	39-126	50/200 164/656
Trosifol® Natural UV	0.76 30	1000-3210	39-126	250 820
Trosifol® XT UltraClear	2.28 90	1000-3210	39-126	95 312
SentryGlas® Natural UV	0.89 35	1220/1530/1830/3300	48/60/72/130	50/200 164/656
SentryGlas® Natural UV	1.52* ² 60* ²	–	–	– –
Trosifol® Spallshield® CPET	0.18 7	1530	60	50/250 164/820
Trosifol® PET	0.18 7	1530	60	1325 4347

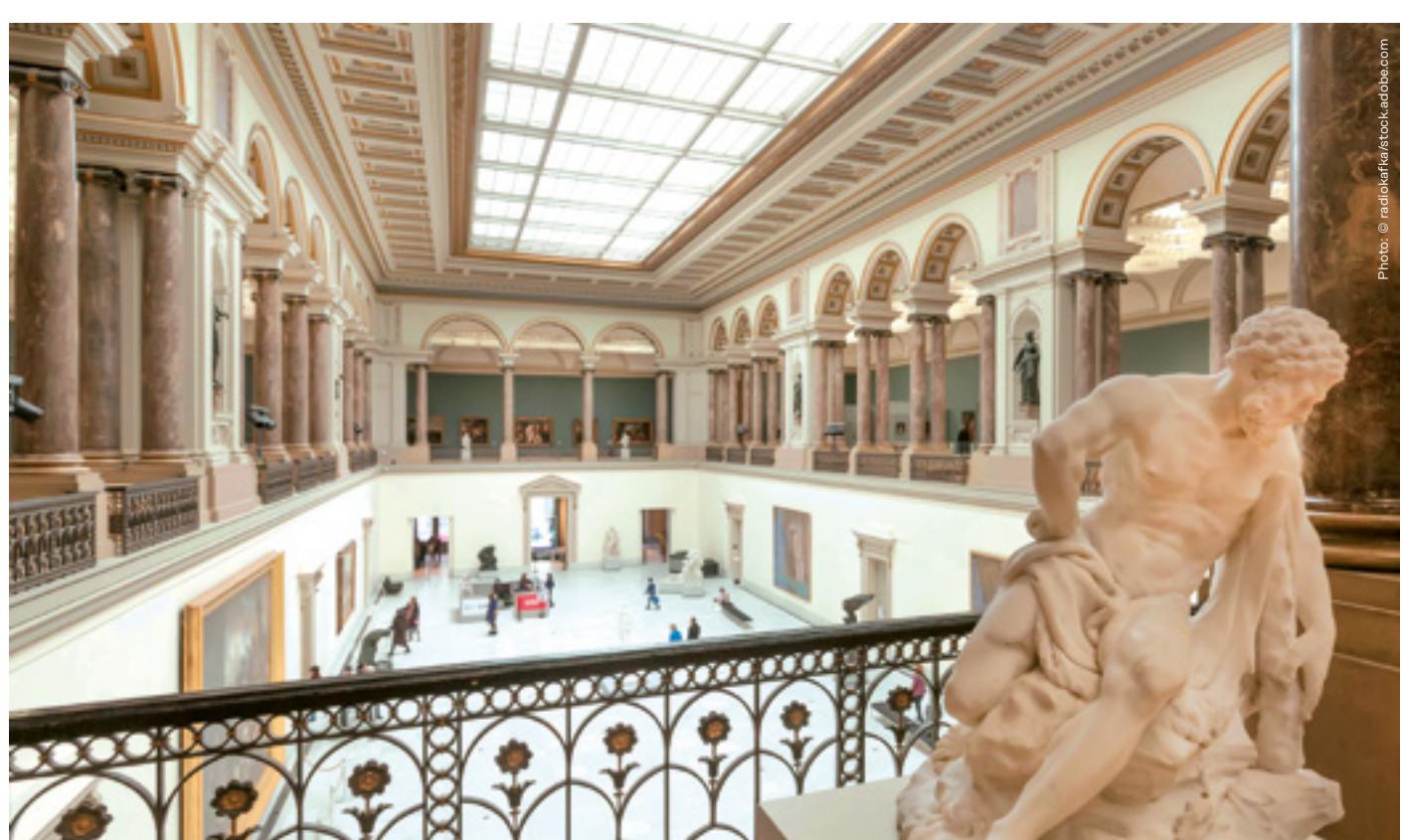
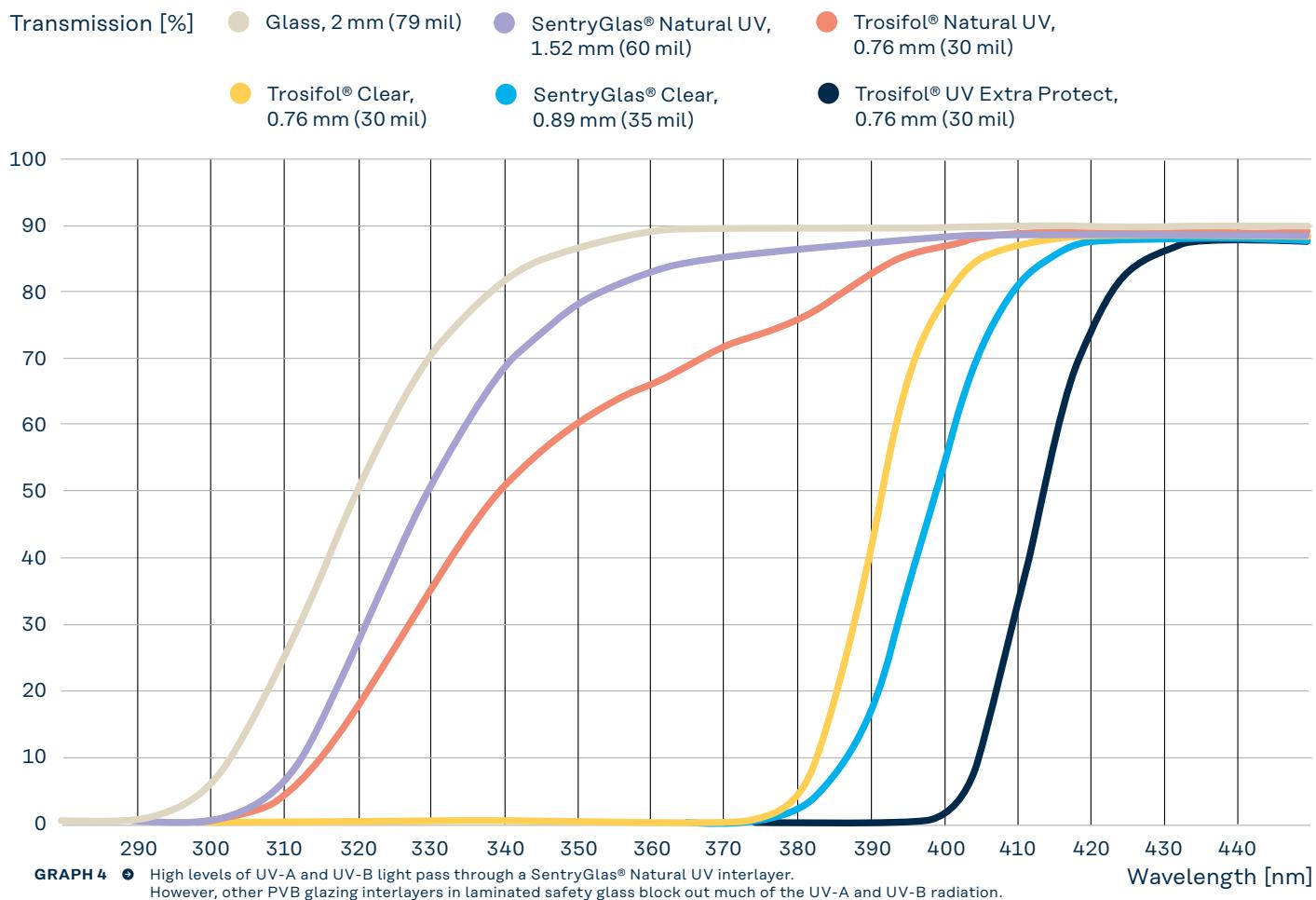
TAB 19 • *² SentryGlas® Natural UV 1.52 mm (60 mil) is only available in sheets. Same sizes as standard SG sheets.

Not all products are available in all regions.



• Trosifol® Spallshield® CPET impact test

UV Light transmittance curves



• Old sculpture in a museum



● Parque Toreo, Mexico

BirdSecure® Pro

Bird-Friendly solutions

BIRDSECURE® PRO HIGHLIGHTS

- Outstanding threat level
- Relevant safety features remain unchanged
- Outstanding optic in combination with BirdSecure®
- Solar control performance

APPLICATIONS & RECOMMENDATIONS

- Reflective façades
- Glazed balcony walls and balustrades
- Transparent noise barriers, glazed entrances or winter gardens with ineffective black silhouettes
- Transparent aerial walkways
- Transparent building corners
- Attractive green spaces in front of reflective façades



Photo: © ImageFlow - Kriengsuk Prasootsung /shutterstock.com



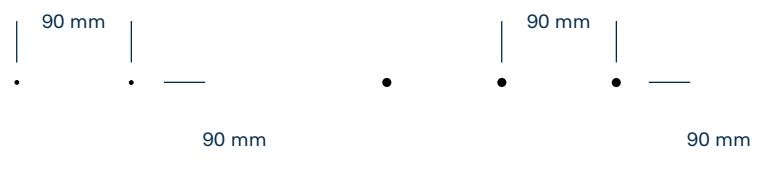
Photo: © J.Wang Anj Qifshutterstock.com

- Transparent noise barriers, glazed entrances or winter gardens with ineffective black silhouettes
- Plants behind transparent surfaces
- Transparent aerial walkways
- Glazed balcony walls and balustrades
- Reflective façades
- Attractive green spaces in front of reflective façades
- Transparent building corners

Trosifol®

BirdSecure® Pro 90/3
BirdSecure® Pro 90/6

- Dot pattern on Trosifol® UltraClear



SentryGlas®

BirdSecure® Pro 90/3
BirdSecure® Pro 90/6

- Dot pattern on SentryGlas®



• 0.1% surface coverage

• 0.4% surface coverage

TECHNICAL DATA – BIRDSECURE® PRO

Physical properties

Design		Light transmittance [%]	Light reflexion outside [%]	g-value [%]	Absorption outer pane [%]
Monolithic glass					
6 mm - 0.76 mm BirdSecure® Pro 90/6 + 0.76 mm Ultra Clear - 6 mm		87	8	74	26
6 mm - 0.76 mm BirdSecure® Pro 90/3 + 0.76 mm Ultra Clear - 6 mm		87	8	74	26
Product					
Threat factor					
BirdSecure® Pro 90/6	14				
BirdSecure® Pro 90/3	29				

TAB 20 • Estimated values based on calculations

BIRDSECURE® PRO

- Faster delivery times (esp. for replacements)
- Thinner glass combinations
- Combination with annealed glasses for better optical properties

Trosifol® BirdSecure® Pro and SentryGlas® BirdSecure® Pro – Dimensions

Product	Thickness [mm]	Thickness [mil]	Roll widths [mm]	Roll widths [in]	Roll lengths [m]	Roll lengths [ft]
Trosifol® BirdSecure® Pro 90/3	0.76	30	1220/1830/2500	48/72/98	50	164
Trosifol® BirdSecure® Pro 90/6	0.76	30	1220/1830/2500	48/72/98	50	164
SentryGlas® BirdSecure® Pro 90/3	0.76	30	1220/1830/2500	48/72/98	50	164
SentryGlas® BirdSecure® Pro 90/6	0.76	30	1220/1830/2500	48/72/98	50	164

TAB 21 •



Distance: 1 m



Distance: 2 m



Distance: 3 m

TECHNICAL DATA – PRODUCTS

Technical data

Property	Test method	Unit	Trosifol® Clear	Trosifol® UltraClear	Trosifol® SC Monolayer	Trosifol® SC Multilayer	Trosifol® Extra Stiff	Trosifol® XT UltraClear	Trosifol® Natural UV	Trosifol® UV Extra Protect	SentryGlas®	SentryGlas® Xtra™
Density	DIN EN ISO 1183-1	g/cm³	1.07	1.07	1.06	1.06	1.08	1.07	1.07	1.07	0.97	0.97
Refractive index	DIN EN ISO 489	-	1.480	1.480	1.477	1.480	1.486	1.480	1.480	1.482	1.499	1.497
Thermal conductivity	DIN EN 993-15	W/mK	0.21	0.21	0.20	0.20	0.22	0.21	0.21	0.21	0.26	0.25
Thermal expansion coefficient	ISO 11359-2	1/K	1.7E-4	1.7E-4	2.0E-4	2.0E-4	1.2E-4	1.7E-4	1.7E-4	1.7E-4	1.30E-4	1.30E-4
Specific heat capacity		J/g K	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.5
Surface resistivity	DIN 53482	Ω	> 10¹²	> 10¹²	1 x 10¹¹	> 10¹²	> 10¹²	> 10¹²	> 10¹²	> 10¹²	> 10¹²	> 10¹²
Tensile strength	ISO 527-3	N/mm²	> 20	> 20	> 13	> 20	> 30	> 20	> 20	> 20	-	-
Elongation at break	ISO 527-3	%	> 250	> 250	> 300	> 250	> 180	> 250	> 250	> 250	-	-
Tg	DMA, 3K/min, 1 Hz	°C	32	32	21	-	47	32	32	32	-	-

TAB 22 •



Trosifol® Spallshield® CPET and Trosifol® PET

Product	Property	Unit	Value	Minimum	Maximum	Test
Trosifol® Spallshield® CPET	Calculated mean thickness	mil	7.0	6.80	7.20	
	Haze	%	0.8	None	1.0	ASTM D1003
	MD shrinkage at 190°C for 5 minutes	%	2.5	1.0	4.0	Unrestrained
	TD shrinkage at 190°C for 5 minutes	%	2.0	1.0	3.0	Unrestrained
	MD tensile strength	Kpsi (MPa)	25 (172)	20 (138)	None	ASTM D882A
	TD tensile strength	Kpsi (MPa)	29 (200)	22 (152)	None	ASTM D882A
Trosifol® PET	Calculated mean thickness	mil	7.0			
	Haze	%			1.0	ASTM D1003
	MD shrinkage at 190°C for 5 minutes	%	2.5			Unrestrained
	TD shrinkage at 190°C for 5 minutes	%	2.0			Unrestrained
	MD tensile strength	Kpsi (MPa)	25 (172)	20 (138)		ASTM D882A
	TD tensile strength	Kpsi (MPa)	29 (200)	22 (152)		ASTM D882A

TAB 23 •

Tools & Apps

WINSLT

For calculating the light, solar and heat parameters of glazing specifically containing films from the Trosifol® & SentryGlas® product range.

SOUNDLAB AI

First global acoustic calculator based on artificial intelligence for calculating/ estimating acoustic performance of monolithic, double and triple glazed units.

SOLUTION FINDER

For finding the right product of your project.



* Only available as web app

GLASGLOBAL

For performing structural analysis for glass.

STRENGTH LAB AI

The goal of the Strength Lab AI tool is to provide designers, engineers, and architects with an efficient tool to facilitate the design and evaluation of glazing systems in terms of structural properties. This tool provides rapid analysis of virtually any glazing configuration, dimension and load case. Additionally, standard modules allow easy evaluation of results according to ASTM, EN and DIN standards.



Contact



FOR FURTHER INFORMATION

on products from Kuraray, please visit www.kuraray.com.

You can find further information on our Trosifol® and SentryGlas® products at www.trosifol.com.

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