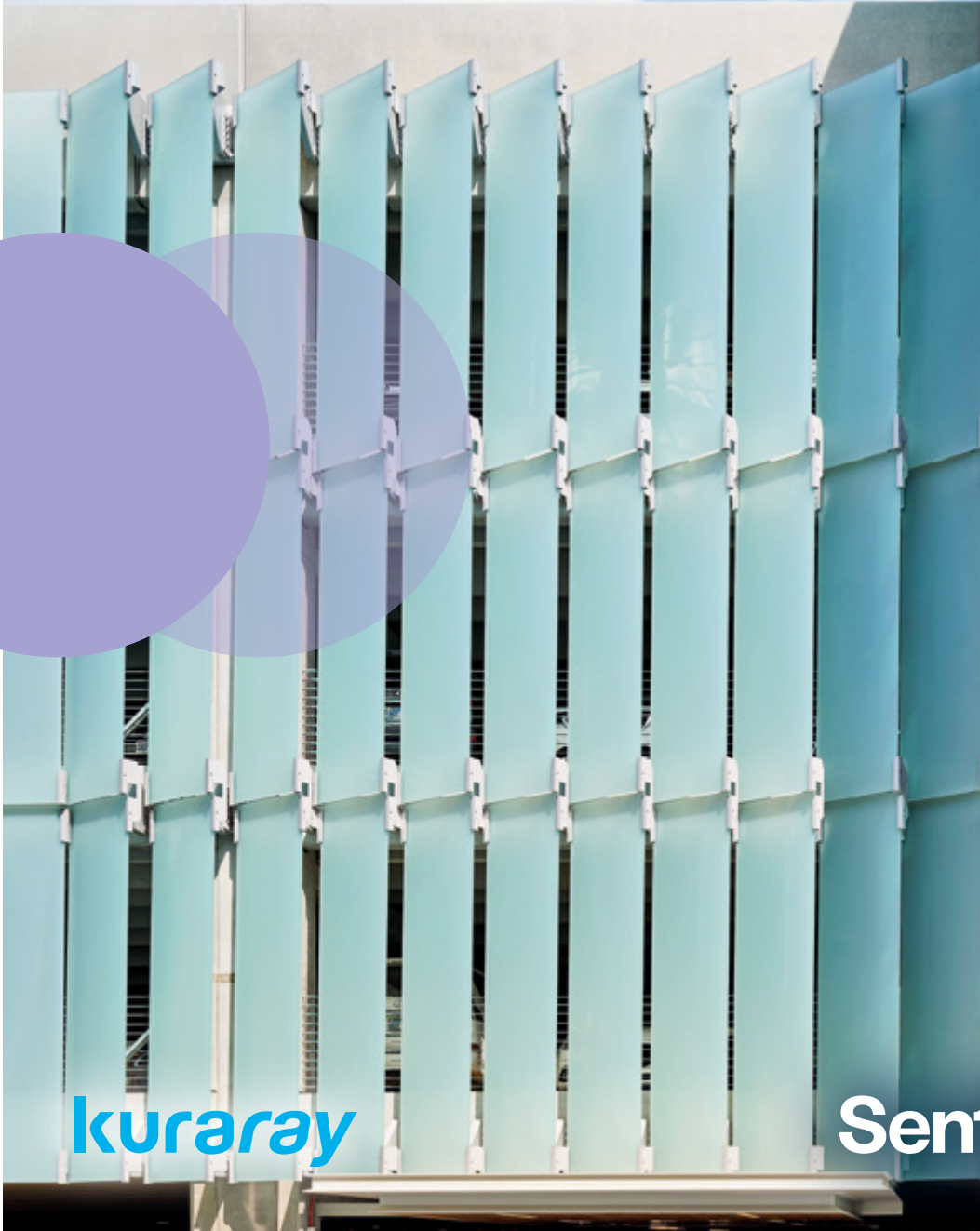


English

Structural and security glazing interlayers

SentryGlas® Translucent White



kuraray

SentryGlas®

SentryGlas® Translucent White interlayer

SentryGlas® Translucent White ionoplast interlayer has the same structural properties as clear ionoplast interlayers. The interlayer's stiffness and strength help to create lighter and safer structural glass that can stand up to greater loads and tougher conditions. The laminate edges show excellent durability when exposed to the elements, an important consideration in minimally supported glass applications, such as glass balustrades and canopies. From a design perspective, the SentryGlas® Translucent White interlayer provides both - an aesthetic effect and a sense of privacy.



SENTRYGLAS® TRANSLUCENT WHITE IONOPLAST INTERLAYER with a 65% Visible Transmittance (T_{vis}) is the latest innovation from Trosifol™. The 65% T_{vis} is achieved by stacking two plies of 0.80 mm (31 mil) interlayer together during the lamination process. The result is an approximate overall interlayer thickness of 1.52 mm (60 mil).

• SentryGlas® Translucent White flooring application

* For optimum performance if one ply is used it is recommended to also use one ply of SentryGlas® NUV. Standard clear SentryGlas® should never be used in combination with SentryGlas® Translucent White.

SentryGlas® Translucent White – dimensions

Product	Film thickness		Roll widths [mm]	Roll widths [in]	Roll lengths PE interleaf [m]		Roll lengths PE interleaf [ft]	
	[mm]	[mil]						
● SentryGlas® Translucent White	0.80	31	1220-3300	48-126	200	200/50	656	656/164

TAB 1 •

SentryGlas® Translucent White – physical properties

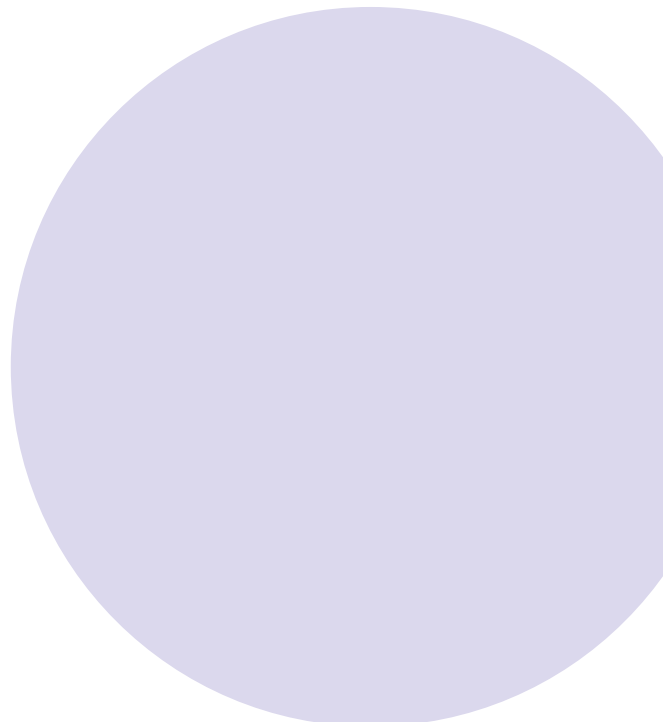
Product	Adhesion	Film thickness		RAL code	Light transmittance* [%]	UV transmittance* [%]	Solar absorption* [%]
		[mm]	[mil]				
● SentryGlas® Translucent White	high	0.80	31	9002	76	43	26

TAB 2 • * 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.

Design flexibility

Number of plies	Light Transmission EN410 [%]	Light Transmission ASTM D1003 [%]
1 ply	73	80
2 ply	57	65
3 ply		55

TAB 3 • SentryGlas® Translucent White can be plied together to achieve a range of light transmission enabling design flexibility. SentryGlas® Translucent White effectively filters 70% UV below 380 nanometers.



Technical data

SentryGlas® Translucent White – technical data

Property	Test method	Unit	SentryGlas® Translucent White
Tensile Strength	ASTM D882	kpsi	38 (5.5)
Elongation	ASTM D882	%	450
Melting Point	DSC	°C	94
Density	ASTM D792	g/cm ³	0.97
Coefficient of Thermal Expansion	ASTM D696	1/°C	9-15 x 10 ⁻⁵
Thermal conductivity W/M-K	DIN 12939	BTU-in/hr-ft ² °F	0.152 (1.05)

TAB 4 •

DURABILITY OF SENTRYGLAS® TRANSLUCENT WHITE ACCORDING TO EN ISO 12543-2:2011, RADIATION TEST

Evaluation of light transmittance before and after radiation

Specimen-number	Light transmittance according to EN 410 [%]		Difference [%]	
	before radiation	after radiation	result	before radiation*
1	80	80	0	± 3
2	80	80	0	± 3
3	80	80	0	± 3

TAB 5 • * Requirement according to EN ISO 12543-2, paragraph 5.3 for initial light transmittance > 65%

The visual inspection of the test specimens after radiation* led to the following result

Kind of defects	Number of permissible defects	Number of defects at test specimen		
		1	2	3
Bubbles	0	0	0	0
Delamination	0	0	0	0
Cloudiness	0	0	0	0

TAB 6 • * with unarmred eyes at a distance between 30 cm and 50 cm in front of a white diffuse background

SentryGlas® Translucent White – weathering

Radiation test 3000 hours [Caliper 0.80 mm/31 mil]	EN12543	Pass
1 year Natural	ANSI Z97.1 ASTM G 147-09 and ASTM G 7-13	Transmission Delta YI= -0.5 Delta E = 0.67 Reflection Delta YI= 0.3 Delta E= 0.23
10 year Equivalent Accelerated Weathering (EMMA)	ASTM G90 Cycle 2	Transmission Delta YI= 0.3 Delta E = 0.52 Reflection Delta YI= 0.70 Delta E= 0.34

TAB 7 ●

ELASTIC PROPERTIES

Poisson Ratio

Temperature	Load duration						
	1 sec	3 sec	1 min	1 hour	1 day	1 month	10 years
10°C (50°F)	0.442	0.443	0.446	0.450	0.454	0.458	0.463
20°C (68°F)	0.448	0.449	0.446	0.459	0.464	0.473	0.479
24°C (75°F)	0.452	0.453	0.458	0.465	0.473	0.482	0.489
30°C (86°F)	0.463	0.466	0.473	0.485	0.488	0.497	0.499
40°C (104°F)	0.481	0.484	0.492	0.498	0.499	0.499	0.499
50°C (122°F)	0.491	0.493	0.497	0.499	0.499	0.500	0.500
60°C (140°F)	0.497	0.498	0.499	0.500	0.500	0.500	0.500
70°C (158°F)	0.499	0.499	0.500	0.500	0.500	0.500	0.500
80°C (176°F)	0.500	0.500	0.500	0.500	0.500	0.500	0.500

TAB 8 ●

Shear Relaxation Modulus G(t) – MPa / (Kpsi)

Temperature	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)	236 (34)	228 (33)	225 (32.6)	220 (32)	217 (31)	206 (30)	190 (28)	178 (26)	172 (25)	171 (25)	161 (23)	153 (22)
20°C (68°F)	211 (31)	206 (30)	195 (28)	188 (27)	175 (25)	169 (25)	146 (21)	130 (19)	115 (17)	112 (16)	96.5 (14)	86.6 (12.5)
30°C (86°F)	141 (20.5)	119 (17)	110 (16)	83 (12)	66 (9.6)	60 (8.7)	50 (7.2)	24.7 (3.6)	12.9 (1.9)	11.6 (1.7)	6.8 (1.0)	5.31 (0.7)
40°C (104°F)	63 (9.1)	37 (5.3)	31 (4.5)	19 (2.8)	11.4 (1.7)	9.3 (1.3)	4.5 (0.7)	3.6 (0.5)	3.4 (0.5)	3.3 (0.5)	3.1 (0.4)	2.9 (0.43)
50°C (122°F)	26.4 (3.8)	13.5 (2.0)	11.3 (1.6)	7.31 (1.1)	4.9 (0.7)	4.2 (0.6)	2.8 (0.4)	2.4 (0.4)	2.2 (0.3)	2.2 (0.3)	2 (0.3)	2 (0.3)
60°C (140°F)	8.2 (1.2)	4.3 (0.6)	3.6 (0.5)	2.6 (0.4)	1.9 (0.3)	1.7 (0.2)	1.3 (0.2)	1.2 (0.2)	1.1 (0.2)	1.1 (0.2)	1.0 (0.2)	0.97 (0.14)
70°C (158°F)	2.9 (0.4)	2 (0.3)	1.9 (0.3)	1.4 (0.2)	1.0 (0.1)	0.8 (0.1)	0.6 (0.1)	0.5 (0.1)	0.5 (0.1)	0.5 (0.1)	0.5 (0.1)	0.45 (0.1)
80°C (176°F)	1.3 (0.2)	1.0 (0.1)	0.8 (0.1)	0.6 (0.1)	0.4 (0.06)	0.3 (0.05)	0.3 (0.05)	0.2 (0.03)	0.2 (0.03)	0.2 (0.03)	0.2 (0.03)	0.2 (0.03)

Young's Modulus E(t) – MPa / (Kpsi)

Temperature	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)	681 (99)	661 (96)	651 (94)	638 (83)	629 (91)	597 (87)	553 (80)	516 (75)	498 (72)	499 (72)	467 (68)	448 (65)
20°C (68°F)	612 (89)	602 (87)	567 (82)	549 (80)	511 (74)	493 (71)	428 (62)	380 (55)	336 (49)	330 (48)	282 (41)	256 (37)
30°C (86°F)	413 (60)	349 (50)	324 (47)	243 (35)	194 (28)	178 (26)	146 (21)	72 (10)	38 (5.5)	35 (5)	20.3 (3)	15 (2)
40°C (104°F)	187 (27)	109 (16)	91.6 (13)	57 (8.3)	34 (4.9)	27.8 (4.0)	13.5 (2.0)	11 (1.6)	10 (1.5)	9.9 (1.4)	9.3 (1.3)	8.84 (1.2)
50°C (122°F)	78 (11.4)	40 (5.8)	33.8 (4.9)	21.7 (3.1)	14.6 (2.1)	12.6 (1.8)	8.4 (1.2)	7.2 (1.0)	6.5 (0.9)	6.5 (0.9)	6.3 (0.9)	6 (0.9)
60°C (140°F)	24.5 (3.6)	12.8 (1.9)	10.9 (1.6)	7.6 (1.1)	5.5 (0.8)	5.1 (0.7)	3.8 (0.6)	3.6 (0.5)	3.3 (0.5)	3.3 (0.5)	3 (0.4)	2.9 (0.4)
70°C (158°F)	8.8 (1.3)	6.3 (0.9)	5.64 (0.8)	4.2 (0.6)	2.9 (0.4)	2.5 (0.4)	1.8 (0.3)	1.6 (0.2)	1.5 (0.2)	1.5 (0.2)	1.4 (0.2)	1.3 (0.2)
80°C (176°F)	4.0 (0.6)	2.9 (0.4)	2.5 (0.4)	1.7 (0.2)	1.1 (0.2)	1.0 (0.1)	0.8 (0.1)	0.7 (0.1)	0.6 (0.1)	0.8 (0.1)	0.6 (0.1)	0.5 (0.1)

Contact



FOR FURTHER INFORMATION

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

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