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TROSIFOL® STRUCTURAL

BULLETIN

SENTRYGLAS® TRANSLUCENT WHITE  
60-MIL Tvis 65%

Photo: © Atlanta Hall Management, Inc.

## SENTRYGLAS® TRANSLUCENT WHITE INTERLAYER

### SentryGlas® Translucent White Interlayer

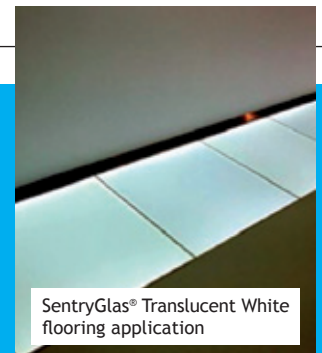
Thickness		Width		Length	
[mm]	[mil]	[cm]	[in]	[m]	[ft]
0.80	31	122	48	200	656
		153	60		
		183	72	50	164
		153	60		

### Design flexibility

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

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.

Our new Trosifol® Structural product 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 flooring application

*SentryGlas® Translucent White ionoplast interlayer with a 65% Visible Transmittance (Tvis) is the latest innovation from Trosifol™. The 65% Tvis 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).*

\* 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.

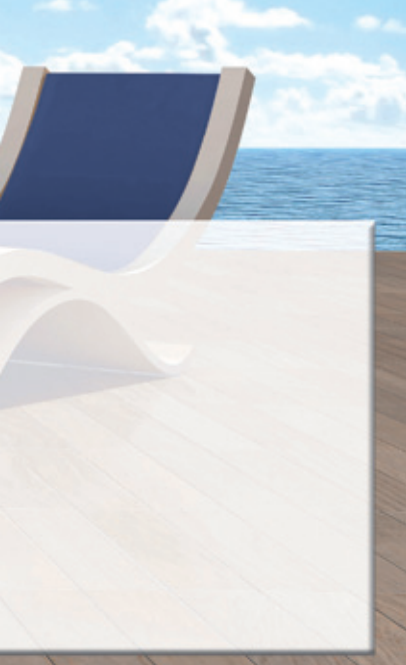
# SENTRYGLAS® TRANSLUCENT WHITE

## Interlayer Typical Properties

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

## Weathering

Radiation Test 3000 hours [Caliper 0.80 mm/31 mils]	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



# INTERLAYER 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
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

## Shear Modulus G 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)

## Youngs Modulus E 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)