

Poliwęglan Lity

Wide scope of applications and good weatherability

The UV-protection co-extrusion layer on the surface can prevent the sheet from ageing under the sunshine exposure. Maintain the stable physical indexes at the temperature between -40℃ and +120℃. The brittle temperature is -110℃, and the softening temperature is 150℃. After accelerated ageing test for 4000 hours, The yellowing degree is 2 and the transmittance is reduced by just 0.6%.



Other Parameters

Thickness (mm)	Weight (Kg/m ²)	Width (m)	Length (mm)	Min Bending Radius (mm)	Min Relative Span (mm)	Soundproof Performance (DB)	Standard Colors
1.5	1.80	1.22-2.67	30000	270	540	21	Clear Green blue Blue Green Tan Opal etc
2.0	2.40	1.22-2.67		360	720	23	
2.7	3.24	1.22-2.67		486	972	25	
3.0	3.60	1.22-2.67	2440	540	1080	26	
4.5	5.40	1.22-2.67	10000	810	1620	27.5	
6.0	7.20	1.22-2.67	30000	1080	2160	29	
8.0	9.60	1.22-2.67	2440 10000	1440	2880	31	
10.0	12.00	1.22-2.67		1800	3600	32	
12.0	14.40	1.22-2.67		2160	4320	34	
14.0	16.80	1.22-2.67		2520	5040	36	
16.0	19.20	1.22-2.67		2880	5760	38	
18.0	21.60	1.22-2.67		3240	6480	40	
20.0	24.00	1.22-2.67		3600	7200	43	

Elongation at break	%	>100
Specific heat	KJ/(kg*K)	1.17
Heat deflection temperature	℃	140
Soundproof performance	DB	23-34

Basic Technical Parameters

Property	Unit	Index
Impact resistance	J/m	850
Transmittance	%	88-95
Specific gravity	g/cm ³	1.2
Coefficient of thermal expansion	mm/m °C	0.065
Service temperature	°C	-40~+120
Heat transfer coefficient	W/m ² °C	0.21
Tensile strength	N/mm ²	>60
Flexural strength	N/mm ²	100
Modulus of elasticity	Mpa	2400
Tensile stress at break	Mpa	>65

★ Sound insulation

Provide excellent sound insulation and reduce the noise level effectively. The sound insulation of the PC board is better than that of the glass 5-9DB, if compared with glass in the same thickness. So, it is the internationally preferred material of noise barrier along expressways.



★ Weatherability

The PC solid sheet can maintain the stable physical indexes at the temperature between -40°C and 120°C.

★ Anti-condensation

No condensation appears on the inside of sheet when the indoor temperature is 0°C, outdoor temperature is 23°C and indoors relative humidity is less than 80%.

