



Anhui Yaojing new material Technology Co., LTD

Physical Properties

Thickness	0.38mm	0.76mm	1.52mm
Color	Extra Clear		
Apperance	Achromic or yellowish transparent film with smooth surface		
Length (m)	450	250	120
Width (mm)	500-3300	500-3300	500-3300
Thickness Tolerance(mm)	±0.02	±0.02	±0.02
Haze %	≤0.15	≤0.15	≤0.3
Light Transmittance	≥90%	≥90%	≥90%
Roughness	23 - 30	25 -35	32-45
Moisture %	0.35 - 0.55	0.35 - 0.55	0.35 - 0.55
Yellow Index	≤1.2	≤1.2	≤1.2
Shrinkage(60C/15min)	≤3	≤2	≤1.5
Tensile Streth	≥20	≥20	≥20
Knock value	7 - 9	7 - 9	7 - 9
Elongation at break	≥200	≥200	≥200

Optical & Solar Performance

Property	Test Method	Units	YAOJING® PVB
Solar Transmittance	EN 410 / NFRC 100	%	75 (Typical)
Solar Reflectance	EN 410	%	4
Solar Absorptance	EN 410	%	18
Visible Light Transmittance	EN 410	%	88–90
Visible Reflectance	EN 410	%	8
Solar Heat Gain Coefficient (SHGC)	NFRC 300	–	0.80–0.82
Light to Solar Gain (LSG)	Calculated	–	1.05–1.10
U-Value (3mm + 0.76 PVB + 3mm)	NFRC 100	W/m ² ·K	5.6–5.8
UV Transmittance (300–380 nm)	EN 410	%	<1%
UV Protection	Calculated	%	>99%



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YAOJING® Clear PVB – Shear Relaxation Modulus G(t) (MPa)

Load Duration	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
3 sec	50	28	11	4	1.6	0.8	0.55	0.45	0.4	0.35	0.3
10 sec	38	18	6	2	0.9	0.8	0.47	0.4	0.36	0.31	0.25
30 sec	24	9	2.8	1.1	0.68	0.49	0.42	0.37	0.32	0.26	0.15
1 min	18	6	2.1	0.9	0.58	0.46	0.39	0.35	0.29	0.21	0.1
5 min	7	2.2	1	0.55	0.46	0.39	0.34	0.28	0.19	0.07	–
10 min	5	1.7	0.77	0.51	0.42	0.37	0.32	0.24	0.13	0.02	–
30 min	2.3	1	0.59	0.45	0.39	0.33	0.27	0.16	0.03	–	–
1 hour	1.8	0.78	0.51	0.42	0.37	0.31	0.22	0.1	–	–	–
6 hours	0.8	0.51	0.42	0.36	0.3	0.2	0.08	–	–	–	–
12 hours	0.68	0.47	0.39	0.34	0.26	0.15	0.02	–	–	–	–
1 day	0.57	0.44	0.37	0.31	0.22	0.08	–	–	–	–	–

Values shown are typical reference values and not individually validated for every thickness.

Thermal Properties

Property	Test Method	Units	Value
Coefficient of Thermal Expansion	ASTM E831	ppm/°C	150–160
Thermal Conductivity	ASTM D5930	W/m·K	0.2
Emissivity	ASTM C1371	–	0.94

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