

TECHNICAL DATA SHEET

VS102

Applications : Interlayer film for architectural and designed laminated glass.
Suitable for laminated glass with or without insertion (PDLC, fabric, etc.)

Characteristic : Thermosetting EVA-based polymer film.

Specifications

	Properties	Test method	Unit	Value *
Optical properties	Color	-	-	Super Clear
	Transmittance (360-1100 nm) **	TPIAS method	%	≥ 97
	UV cut off	TPIAS method	nm	360
	Haze (LG 33.1 structure)	TPIAS method	%	≤ 0.2
	Haze (LG 33.2 structure)	TPIAS method	%	≤ 0.3
	Refractive index	ISO 489	-	1.475
Mechanical properties	Adhesion to glass	ASTM D903	N/cm	≥ 70
	Young’s modulus	ASTM D412	MPa	9
	Elongation at break	ASTM D412	%	> 450
	Tensile strength at break	ASTM D412	MPa	≥ 11
	Secant modulus at 10% strain	ASTM D412	MPa	8
	Hardness shore A	ASTM D2240	-	67
Other properties	Water absorption	ASTM D570	%	< 0.1
	WVTR	ASTM F1249	g/m ² 24h	≤ 30
	%Cross-linking	TPIAS method	%	≥ 90
	Yellowness after UV exposure test	TPIAS method	Delta YI	≤ 4
	Yellowness after damp heat test	TPIAS	Delta YI	≤ 2

* All data are initial QC values, cured at 130°C for 40 minutes.

** Transmittance of LG 33.1 structure.

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Dimensions and packaging

Thickness (mm)	Roll length (m)	Width (mm)	Core diameter (mm)	Packaging
0.38	100	up to 2600	76 or 152	Individual cardboard box
0.76	50			

Test reports and certifications

Test topic	Test standard	Certified by	Glass system	Result
Pendulum test	DIN EN 12600	F&K	44.2 Float glass	Class 2B2
Sound reduction Rw (C; Ctr)	EN ISO 10140-2	ift Rosenheim	66.2 Float glass	37 (-1;-2) dB
Laminated glass for building	TIS 1222-2539	Thailand Automotive Institute	55.1 Float glass	Passed

* Please ask for full report if needed.



Processing

Glass temperature parameter for sufficient cross-linking

Lowest glass temperature	110 °C / 230 °F
Highest glass temperature	135 °C / 275 °F

* Temperature of glass inside of the oven.

** Please see the processing detail from the recommended condition for vacuum bag oven document.

Storage and shelf life

Recommended storage conditions	Temperature < 30 °C / Humidity < 60 %RH
Shelf life	9 months after production date