

## 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	%	≤ 0.3
	Haze (LG 33.2 structure)	TPIAS method	%	≤ 0.4
	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 <sup>2</sup> 24h	≤ 30
	%Cross-linking	TPIAS method	%	≥ 90
	Yellowness after UV exposure test	TPIAS method	Delta YI	≤ 4
	Yellowness after damp heat test	TPIAS method	Delta YI	≤ 2

\* All data are initial QC values, Cured at 135°C, Cross-linking ≥ 90%.

\*\* 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	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	Passed, 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

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

15 months after production date

