

## TECHNICAL DATA SHEET

### VS104

Applications : Interlayer film for architectural and designed laminated glass.

[Suitable for laminated glass with PDLC](#)

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 3+3 structure)	TPIAS method	%	≤ 0.2
	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 3+3 mm with 1 layer of VS104 (720 g/sqm).

## TECHNICAL DATA SHEET

### VS104

#### Dimensions and packaging

Weight (g/sqm)	Thickness (mm)	Roll length (m)	Width (mm)	Core diameter (mm)	Packaging
720	850	40	up to 2440	76	Individual cardboard box

#### 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	15 months after production date

