

TECHNICAL DATA SHEET

VS401

Applications : Interlayer film for architectural and designed laminated glass.
Suitable for laminated glass with or without insertion (fabric, etc.)
Characteristic : Thermosetting EVA-based polymer film.

Specifications

	Properties	Test method	Unit	Value *
Optical properties	Color	-	-	Sandblast
	Transmittance (360-1100 nm) **	TPIAS method	%	≥ 70
	UV cut off	TPIAS method	nm	-
	Haze	TPIAS method	%	100
	Refractive index	ISO 489	-	-
Mechanical properties	Adhesion to glass	ASTM D903	N/cm	≥ 60
	Young’s modulus	ASTM D412	MPa	10
	Elongation at break	ASTM D412	%	> 600
	Tensile strength at break	ASTM D412	MPa	≥ 15
	Secant modulus at 10% strain	ASTM D412	MPa	10
	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	≤ 5
	Yellowness after damp heat test	TPIAS method	Delta YI	≤ 5

* 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 2200	76	Individual cardboard box

Test reports and certifications

Test topic	Test standard	Certified by	Glass system	Result
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	15 months after production date

