TECHNICAL DATASHEET

VS401

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**	-	-	Satin
	Transmittance (360-1100 nm)	TPIAS method	%	> 70
	UV cut off	TPIAS method	nm	-
	Haze	TPIAS method	%	-
	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	Delta YI	≤ 5

** Gel content and Haze values depend on lamination time and temperature.*
*** Specimens were cured at 130°C for 44 min.*

TPI ALL SEASONS COMPANY LIMITED
26/56 8th floor TPI Tower, Chantatmai Road, Tungmahamek, Sathorn, Bangkok 10120 THAILAND.
Tel : +662 285 5090 ext. 12096 Fax : +662 678 7080 Email : sales@vistasolar.com

TECHNICAL DATASHEET
VS401

Dimensions and packaging

Thickness (mm)	Roll length (m)	Width (mm)	Core diameter (mm)	Packaging
0.38	100	up to 2200	76 or 152	Individual cardboard box
0.76	50			

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

Recommended lamination parameters	Vacuum bag and/or Vacuum ring lamination
Low laminating temperature	115 °C / 239 °F
High laminating temperature	135 °C / 275 °F

** Temperature of glass inside of the oven.*
*** Please see the processing detail in recommended conditions document.*

Storage and shelf life

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

TPI ALL SEASONS COMPANY LIMITED
26/56 8th floor TPI Tower, Chantatmai Road, Tungmahamek, Sathorn, Bangkok 10120 THAILAND.
Tel : +662 285 5090 ext. 12096 Fax : +662 678 7080 Email : sales@vistasolar.com