01 / PRODUCT TECHNICAL DATA

PINKCITY SOLAR EVA SHEET

Ethylene-vinyl acetate film for solar PV module encapsulation

TECHNICAL SPECIFICATION / PENDING VALIDATION

PSF / EVA / TDS / Rev. 02 | 05 November 2026

EVA encapsulation film for compatible photovoltaic module constructions. Optical options: HLT (UV-transmitting) and UVB (UV-blocking), subject to grade confirmation and module qualification.

Property / unit	Proposed target	Test method / condition
Optical transmission / %	≥91	380–1100 nm; GB/T 29848-2018
UV transmission / % 290–380 nm	HLT: >80 UVB: <30	ASTM E424
UV cut-off / nm	UVB: 360 HLT: not specified	ASTM E424
Gel content / %	≥75	GB/T 29848-2018
Glass peel adhesion / N/cm	≥60	GB/T 29848-2018
Backsheet peel adhesion / N/cm	≥40	ISO 8510-2:1990
Tensile strength, cured / MPa	≥16	GB/T 29848-2018
Elongation at break, cured / %	≥450	GB/T 29848-2018
Dielectric strength / kV/mm	≥28	GB/T 29848-2018
Volume resistivity / Ω·cm	≥1 × 10^{15}	GB/T 29848-2018
Comparative tracking index / V	600	GB/T 29848-2018
Shrinkage, MD / TD / %	<2 / <1	160°C on glass, 5 minutes

Values are proposed technical targets pending validation on Pinkcity EVA production samples. Confirm specimen thickness, conditioning, cure and substrate before testing. This revision does not constitute a certificate of analysis or an approved sales specification.

PINKCITY SOLAR FILMS (INDIA) PRIVATE LIMITED

AD Industrial Society, HARSOOLIYA, Diggi-Malpura Road, Behind Ratan Industrial Area
TEHSIL: MADHORAJPURA, DIST. : JAIPUR, PIN : 303904

info@pinkcitysolarfilms.com | www.pinkcitysolarfilms.com

02 / SUPPLY, PROCESS & HANDLING

Supply & processing information

Supply formats and processing conditions are subject to technical agreement for the ordered EVA grade. Validate the complete module bill of materials and lamination process before production.

Proposed supply formats

Parameter	Format A	Format B
Nominal apparent thickness	0.60 mm ±5%	0.65 mm ±5%
Mass per unit area	480 g/m² ±5%	520 g/m² ±5%
Width / roll length	By technical agreement	By technical agreement

Thickness and GSM are independent ordering characteristics; embossing affects apparent thickness. Confirm the achievable thickness-to-mass relationship, width, tolerances, length, core and packaging for each order.

Lamination trial starting points

Trial parameter	Proposed trial window
Evacuation time	4–5 minutes
Lamination time	7–9 minutes
Single-stage temperature	140–145°C
Double-stage temperature	145–150°C

Use only for controlled trials after checking the formulation supplier’s cure guidance. Actual film temperature, vacuum quality, cycle definitions and laminator settings must be verified. Qualify cure, peel adhesion, bubbles and cell movement with the actual module bill of materials.

Storage & release conditions

Keep sealed in original packaging, indoors below 30°C and below 60% relative humidity, protected from sunlight, heat and dust. Storage limits, time after opening and shelf life remain subject to grade-specific validation and written confirmation.

Product suitability depends on the EVA formulation, module construction and processing conditions. Confirm qualification and applicable certification scope for the selected grade. Technical values and process windows require company validation before final release.

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