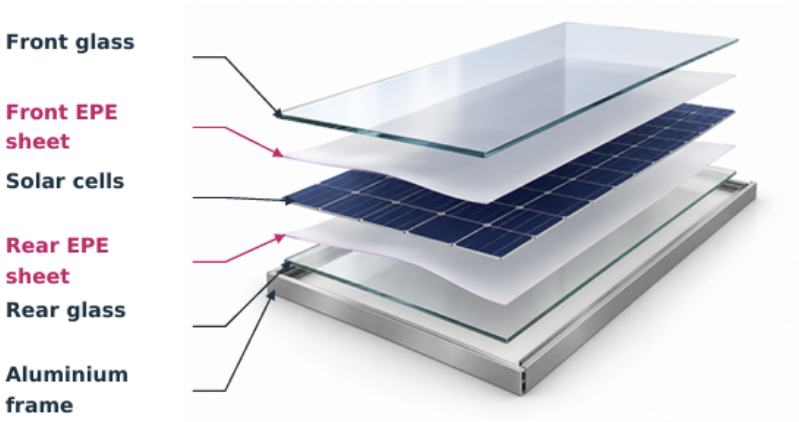
01 / PRODUCT & CONSTRUCTION

PINKCITY SOLAR EPE SHEET

Multilayer encapsulation for P-type and N-type bifacial PV modules, including MonoPERC and TOPCon architectures.

SOLAR MODULE LAYERS



EVA outer layer · 30%

POE core · 40%

EVA outer layer · 30%

Construction ratios as stated in the supplied Pinkcity specification.

EVA outer layers support optical transmission and bonding; the POE core supports moisture resistance and module durability. Designed for front and rear encapsulation in compatible module constructions.

Supply formats

Nominal mass	Nominal thickness	Roll length
440 ± 20 g/m²	0.550 ± 0.10 mm	350 m
460 ± 20 g/m²	0.550 ± 0.10 mm	350 m
480 ± 20 g/m²	0.60 ± 0.10 mm	300 m
500 ± 20 g/m²	0.65 ± 0.10 mm	250 m

Width tolerance: +7 / −0 mm. Apparent thickness depends on embossing. Customer-specific width and supply formats are subject to technical agreement.

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02 / MATERIAL PERFORMANCE

Technical specifications

Product values and test methods reproduced from the supplied Pinkcity technical data sheet.

Property	Specification	Method
Thickness	450–700 µm (±5%)	ASTM D6988-13
Mass per unit area	390–580 g/m² (±5%)	Weighing balance
Width	Custom (+7 / −0 mm)	Scale
Gel content	≥75%	ASTM D2765
Thermal shrinkage / MD	≤3%	150°C oven / 5 min
Thermal shrinkage / TD	≤2%	150°C oven / 5 min
UV cut-off wavelength	360 nm	IEC 62788-1-4
Optical transmission / 190–1100 nm	≥91%	IEC 62788-1-4
UV transmission / 290–380 nm	≥80%	IEC 62788-1-4
Dielectric strength	>20 kV/mm	ASTM D149
Glass adhesion	≥60 N/cm	ASTM D903
Tensile strength / MD & TD	≥10 MPa	ASTM D882
Elongation	≥500%	ASTM D882
Volume resistivity	≥1 × 10^{15} Ω·cm	ASTM D257
Comparative tracking index	600 V	IEC 60112:2003

MD: machine direction. TD: transverse direction. Overall thickness and GSM ranges are distinct from the nominal roll categories on page 1. Confirm the ordered grade and acceptance tolerances before procurement.

03 / PROCESS & QUALIFICATION

From film to module

Lamination guidance, handling recommendations and product qualification notes.

Lamination starting window

Parameter	Single chamber	Double / first	Double / second
Actual hot-plate temperature	143–155°C	120–135°C	145–155°C
Vacuum duration	330–390 s	400–480 s	30–60 s

The temperature and vacuum windows above are from the Pinkcity sheet. Tune the process to the laminator, film grade and module bill of materials (BOM). Prepare gel-content samples using the actual module layer stack; validate cure, adhesion and appearance before production.

Handling & storage recommendations

Store indoors at 0–30°C and below 60% relative humidity, protected from direct sunlight, heat and dust. Keep rolls in their original packaging until use. Use the film within 8 hours after opening. Recommended shelf life: 5 months from the date of manufacture under the specified storage conditions.

Performance & certification information

The supplied Pinkcity sheet describes PID resistance, UV and weather resistance, sustained adhesion, ease of lamination and damp-heat resistance up to 3,000 hours. Detailed test conditions and results should be obtained for the selected film grade and module BOM.

Certification reference in the supplied Pinkcity sheet:
UL certificate number: E552145
Report reference: E552145-20260327
Confirm certificate holder, covered grade and current scope against the certificate before using a certification claim.

Technical agreement

Specifications describe the supplied product information and do not replace a purchase specification or module qualification. Confirm optical measurement bands, ordered dimensions, tolerances, shelf life and approved lamination settings with Pinkcity. Performance depends on the full module construction and processing conditions.

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