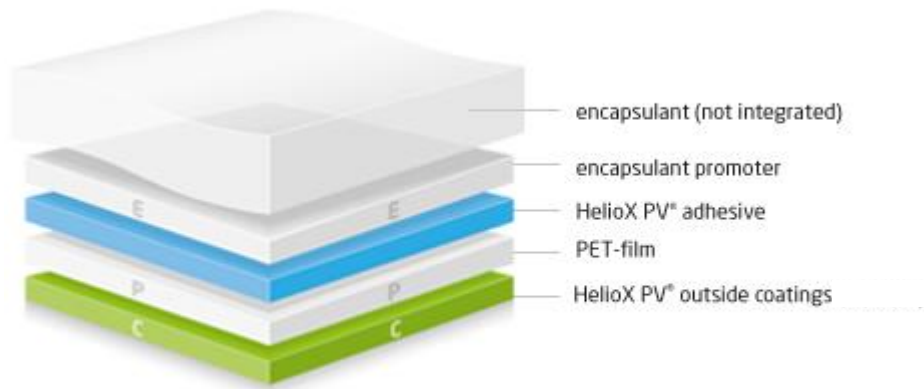


Product Information

HelioX PV[®] backsheet neoX CPE 150/50

		UNIT	VALUE	STANDARD
Construction				
	PV outside Coating	g/m²	≥ 10	
	PET	µm	150	
	PV adhesive	g/m²	≥ 10	
	Encapsulant promoter	µm	50	
Colour			white	other colours available
Dimension				
Total thickness		µm	215	ISO 4593:1993
Weight		g/m²	285	internal
Ageing resistance				
Weathering	No visible changes concerning colour, yellowness, gloss and adhesion after 15,000 h xenon test.			DIN EN ISO 4892-2
Damp-heat test	No visible or relevant functional changes (included encapsulant adhesion) after 3,000 h . Test was realized in laminated modules (glass/encapsulant/backsheet neoX CPE).			IEC 61215 (85°C, 85% r.h.)
Humidity-freeze test	No visible or relevant functional changes (included encapsulant adhesion) after 150 cycles . Test was realized in laminated modules (glass/encapsulant/backsheet neoX CPE).			IEC 61215 (- 40°C → 85°C, 85% r.h.)
Technical properties				
Tensile strength	initial 1,000 h damp-heat	N/mm²	150 (MD) - 140 (TD) 140 (MD) - 130 (TD)	ISO 527-3
Elongation at break	initial 1,000 h damp-heat	%	170 (MD) - 140 (TD) 150 (MD) - 120 (TD)	ISO 527-3
Interlayer adhesion (PET <->Encapsulant promoter)	initial 1,000 h damp-heat 2,000 h damp-heat	N/mm	1.5 0.5 no visible change	180°-Peel (IEC 62788-2)
Encapsulant adhesion	initial 1,000 h damp-heat 2,000 h damp-heat	N/mm	7.0 4.0 no visible change	T-Peel (IEC 62788-2)
Junction box adhesion	initial 1,000 h damp-heat 2,000 h damp-heat	N/mm	max. max. no visible change	T-Peel (IEC 62788-2)
Heat shrinkage		%	1.5 (MD) - 0.5 (TD)	ASTM D-1204 (150°C, 30min)
Water vapour permeability		g/m²·d	3.1	ASTM F-1249 (38°C, 90% r.h.)
Breakdown voltage		kV	> 15	IEC 60243-1
Maximum system voltage		V _{DC}	> 1,000	IEC 60664-1 (in oil)
Flame spread index		-	7	ASTM E-162
Solar reflectance		%	> 70	DIN EN 410 (300 – 1,200 nm)
Production figures				
Width		mm	upon customer request	
Roll diameter		mm	upon customer request	
Inner reel diameter		mm	76 (3"), 152 (6")	other diameters upon request



Values

- All values stated above are to be considered as average values. We reserve the right to make technical changes.
- It shall be for the respective user to check and to ensure the compatibility of HelioX PV® sheets with other products/films/laminates or modules.
- Furthermore the user has to check and to ensure the suitability of HelioX PV® sheets for the corresponding finished product.
- This product information is a technical information, however no product specification.
- In this regard Aluminium Féron GmbH & Co. KG assumes no liability and no warranty.

Shelf life

12 months in original packaging under storage conditions from + 5 to + 40°C and 50 ± 20 % r.h.

Notes

- Other thicknesses available on request.
- **P:** PET; **C:** HelioX PV® coating technology; **E:** Encapsulant promoter

Notes on processing

- PV coating technology reaches full functionality after laminating process.
- Please use gloves.
- Please follow the processing notes of your encapsulant and junction box adhesive supplier.

Encapsulant Promoter – Cell side

- Before lamination be aware of the side which is proper for encapsulant adhesion.
- Inner side of roles is prepared for lamination = Cell side
- Do not clean the surface with solvents or any other material before laminating.
- Do not wipe or touch the inner side.
- The surface of this side has to be clean (no fingerprints or other contaminations).

PV outside coating – Air side

- Outer side of roles = Air side of the modules

Certification

Aluminium Féron GmbH & Co. KG is DIN EN ISO 9001-2008 certified. 

28.08.2015