

MATERIAL SPECIFICATION
1P200 Plus

Mod. EVA primer 200 // Hydr res. PET 50 // Hydr+UV res. PET 50

Application: Backsheets for photovoltaic modules

Properties	Unit	Method	Typical value
Laminate thickness	µm		310
Unit weight	g/m ²		310
Sheet size	mm		Customer spec
Roll width	mm		Customer spec
Roll length	m		Customer spec

Adhesive system

Peel strength layers, Hydr res. PET // Hydr+UV res. PET	N/m	Internal test method	n/a (1)
Peel strength layers, EVA primer // Hydr res. PET	N/m	Internal test method	600
Peel strength towards EVA	N/10mm	DIN EN 28510-1	>115 (2)

Physical and Thermal properties

Colour				White
Heat shrinkage 150 C x 30 min	(MD) (TD)	%	ASTM D-1204	1.2 0.0
Tensile strength of laminate, max load	(MD) (TD)	N/10mm	IPC-TM-650; 2.4.19c	215 270
Elongation at break	(MD) (TD)	%	IPC-TM-650; 2.4.19c	105 80
Moisture barrier at 38°C and 90% RH		g/m ² /day	ASTM F-1249	<1.34

Electrical properties

Breakdown voltage		kV	ASTM D-149	> 30
Partial discharge test		VDC	IEC 60664-1	≥ 1084

(1) The two PET films are inseparable from each other, PET breaks.

(2) Back sheet is inseparable from EVA.

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