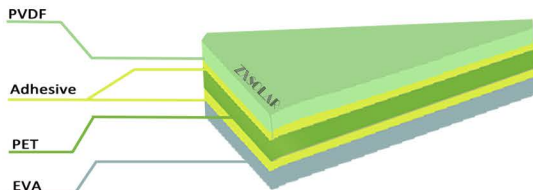


# ZXEVA<sup>®</sup> SOLAR MODULE BACKSHEET



## KPE Structure:



Item	Unit	Value
Thickness	mm	0.30/0.35
Width	mm	990±10
Length	m/roll	100-200
Color		white
Size could be customized		

Test Items	Test Standard	Unit	Standard value	ZX300 / ZX350
				Typical value
Thickness tolerance	GB/T6672-2001	---	±10%	300 / 350
Tensile strength (MD)	ASTM D 882-2002	Mpa	>100	141
Tensile strength (TD)	GB/T 13542	Mpa	>100	128
Elongation at break (MD)	ASTM D 882-2002	%	>80	145
Elongation at break (TD)	GB/T 13542	%	>80	118
Heat shrinkage 150°C, 30min(MD)	ASTM D 1204-2002	%	≤1.5	-0.4
Heat shrinkage 150°C×30min(TD)	GB/T 13542	%	≤1.0	-0.2
Peel strength PVDF&PET	ASTM D 882-2002	N/cm	≥4	5.3
Peel strength Backsheet&EVA	GB/T 2790	N/cm	≥40	120
Breakdown voltage	ASTM D 149-1997 GB/T 1408	KV	≥18	21
Partial discharge vooltage	IEC 60664-1-2007 GB/T 16935	VDC	>1000	1181
Water vapor permeability (38°C, 100%RH)	ASTM F 1249-2006 GB/T 21529	g/㎡·d	≤2	1.2
Damp-heat treatment (85°C, 85%RH, 2000h)	IEC 61215 GB/T 3979/7921		No bubble, no separation, no crack and significantly sticky	No obvious appearance defect
Hot and cold cycle processing (-40°C~85°C, 6h/400 times)	IEC 61215 GB/T 1408		No bubble, no separation, no crack and significantly sticky	No obvious appearance defect
Wet frozen processing After 50 times Hot and cold cycle (-40°C~85°C, 24h/20 times)	IEC 61215 GB/T 1408		No bubble, no separation, no crack and significantly sticky	No obvious appearance defect



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