

DZ300 (MS)

Backsheet for Solar Module



Material

- 20µm PVDF
- 10µm Adhesive
- 250µm PET
- 10µm F Coating

Introduction:

This product can completely block the water vapor and oxygen. It also has excellent good electrical insulation and Anti-contamination ability. The outer PVDF fluorine membrane effectively block all ultraviolet rays under high temperature and high humidity.

There is no hydrolysis phenomenon. It is highly suitable for solar cell assembly encapsulation for high temperature and high humidity environment.

Specifications:

Item		Unit	Test Standard	Value
Back Film Thickness	Standard Thickness	µm	Micrometer	300
	Tolerance	--	Micrometer	±5%
Tensile Strength (MD)		N/mm ²	ASTM D-882-2009	≥100
Tensile Strength (TD)		N/mm ²	ASTM D-882-2009	≥100
Elongation at Break (MD)		%	ASTM D-882-2009	≥100
Elongation at Break (TD)		%	ASTM D-882-2009	≥100
Thermal Shrinkage (150°C×30min) (MD)		%	ASTM D-1204-2007	≤1.0
Thermal Shrinkage (150°C×30min) (TD)		%	ASTM D-1204-2007	≤0.5
Adhesion Release between layers		N/cm	ASTM D-3359-2002	≥5.0
Adhesion with EVA (Initial)		N/10mm	ASTM D 1876	≥40
Breakdown Voltage		KV	ASTM D 149-1997	≥20
Partial Discharge		VDC	IEC 60664-1-2007	≥1000
Water Vapor Transmission Rate		g/m ² ·d	ASTM F 1249-2006	≤0.01
Ageing Test (85°C×85%RH,1000h)		--	IEC 61215-2005	No Delamination, No Bubbles, No Wrinkles Δb≤3.0
UV Pretest		--	IEC 61215-2005	No Delamination, No Bubbles, No Wrinkles Δb≤3.0
Salt Spray Test		--	IEC 60068-2-11:1981	No Delamination, No Bubbles, No Wrinkles
Boiling Test (Boiling Water for 24h)	Visual Inspection	--	GB/T 9286-1998	No Delamination, No Bubbles, No Wrinkles
	Peel strength btw layers	N/cm		≥4
Temperature Cycle Test (-40°C~85°C,50 Cycles)	Visual Inspection	--	IEC 61215-2008	No Delamination, No Bubbles, No Wrinkles
	Breakdown voltage	KV	GB/T 2423.3-2006	≥15
Freezing Cycle Test (-40°C~85°C,85%,10 Cycles)	Visual Inspection	--	IEC 61215-2008	No Delamination, No Bubbles, No Wrinkles
	Breakdown Voltage	KV		≥15

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