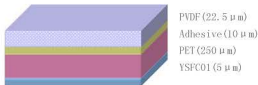


Inshine301Y Product Specification

◆ Product Feature:

1. Sand resistance;
2. High heat resistance: RTI \geq 120 $^{\circ}$ C;
3. High UV barrier: Fluorine film surface under 300KWH,
 $\Delta b \leq 3$;
4. Easy to repair;
5. High salt fog and microorganism resistance.



Inshine301Y structure

◆ Product Characteristic:

Item		Unit	Quoted Standard	Value
Film Thickness	standard thickness	μm	GB/T 13542.2-2009	287.5
	allowable tolerance			$\pm 5\%$
Tensile Strength (MD/TD)		MPa	GB/T 13542.2-2009	MD \geq 12; TD \geq 1200
Elongation At Break (MD/TD)		%	GB/T 13542.2-2009	MD \geq 120; TD \geq 100
Heat shrinkage rate (150 $^{\circ}$ C \times 30min)		%	GB/T 13542.2-2009	MD \leq 1.0; TD \leq 1.0
Coating adhesion		Grade	GB/T 9286-1998	0
Peel strength from EVA		N/cm	GB/T 2790-1995	≥ 50
Interlaminar peel strength		N/cm	GB/T 2790-1995	≥ 4.0
Peel strength from silica gel		N/cm	GB/T 31034-2014	Cohesive failure ≥ 50
Breakdown voltage		KV	GB/T 13542.2-2009	≥ 18
Partial discharge voltage		VDC	IEC 60664-1-2007	≥ 1000
Water vapor permeability 38 $^{\circ}$ C-90%RH		$\text{g}(\text{m}^2\cdot\text{day})$	GB/T 26253-2010	≤ 2.0
Water resistance test (98 $^{\circ}$ C \times 24H)	Visual inspection	—	GB/T 17748-2008	No delamination, no blistering, no wrinkling
	Interlaminar peel strength	N/cm		≥ 4.0
Constant humidity test (85 $^{\circ}$ C \times 85%RH \times 1000H)	Visual inspection	—	IEC 61215-2-2016	No delamination, no blistering, no wrinkling
	Xanthochromia	—		$\Delta b^* \leq 2.0$
	Peel strength from EVA	N/cm		≥ 40
	Interlaminar peel strength	N/cm		≥ 4.0
	Breakdown voltage	KV		≥ 16
Ultraviolet pretreatment (60KWH/m 2)	Visual inspection	—	IEC 61215-2-2016	No delamination, no blistering, no wrinkling
	Xanthochromia	—		$\Delta b^* \leq 3.0$
Cold-hot cycle test (TC200) & Wet frozen test (HF10)	Visual inspection	—	IEC 61215-2-2016	No delamination, no blistering, no wrinkling
	Xanthochromia	—		$\Delta b^* \leq 2.0$
	Peel strength from EVA	N/cm		≥ 40
	Interlaminar peel strength	N/cm		≥ 4.0
	Breakdown voltage	KV		≥ 16
	Peel strength from silica gel	N/cm		Cohesive failure ≥ 35
Acid/ Alkali resistance	Visual inspection	—	GB/T 17748-2008	No delamination, no blistering, no wrinkling
	Total chromatic aberration	—		$\Delta E^* \leq 1.0$
Salt fog resistance	Visual inspection	—	GB/T 2423.17-2008	No delamination, no blistering, no wrinkling
	Coating adhesion	Grade		0