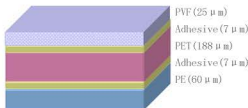


## Inshine302Y Product Specification

### ◆ Product Feature:

1. High sand resistance;
2. High UV barrier: Fluorine film surface under 300KWH,  $\Delta b \leq 2$
3. Excellent performance for resisting from acid/ alkali, salt fog and microorganism, etc.
4. Adapted to lots of adverse climate like seaside and grassland



**Inshine 302Y structure**

### ◆ Product Characteristic:

Item		Unit	Quoted Standard	Value
Film Thickness	standard thickness	μm	GB/T 13542.2-2009	287
	allowable tolerance			±5%
Tensile Strength (MD/TD)		MPa	GB/T 13542.2-2009	MD≥12; TD≥1200
Elongation At Break (MD/TD)		%	GB/T 13542.2-2009	MD≥120; TD≥100
Heat shrinkage rate (150℃×30min)		%	GB/T 13542.2-2009	MD≤1.0; TD≤1.0
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	≥1500
Water vapor permeability 38℃×90%RH		g/(m <sup>2</sup> ·day)	GB/T 26253-2010	≤2.0
Water resistance test (98℃×24H)	Visual inspection	—	GB/T 17748-2008	No delamination, no blistering, no wrinkling
	Interlaminar peel strength	N/cm		≥4.0
Constant humidity test (85℃×85%RH×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 <sup>2</sup> )	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