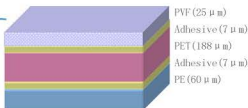


## InshineT03Y Product Specification

### ◆ Product Feature:

1. High weather resistance;
2. High heat resistance: RTI $\geq$ 120°C;
3. Thermal stability;
4. High UV barrier: Fluorine film surface under 300KWH,  
 $\Delta b \leq 2$ .



**InshineT03Y 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 $\geq$ 12, TD $\geq$ 1200
Elongation At Break (MD/TD)		%	GB/T 13542.2-2009	MD $\geq$ 120, TD $\geq$ 100
Heat shrinkage rate (150°C×30min)		%	GB/T 13542.2-2009	MD $\leq$ 1.0, TD $\leq$ 1.0
Peel strength from EVA		N/cm	GB/T 2790-1995	$\geq$ 50
Interlaminar peel strength		N/cm	GB/T 2790-1995	$\geq$ 4.0
Peel strength from silica gel		N/cm	GB/T 31034-2014	Cohesive failure $\geq$ 50
Breakdown voltage		KV	GB/T 13542.2-2009	$\geq$ 18
Partial discharge voltage		VDC	IEC 60664-1-2007	$\geq$ 1000
Water vapor permeability 38°C×90%RH		g(m <sup>2</sup> ·day)	GB/T 26253-2010	$\leq$ 1.8
Water resistance test (98°C×24H)	Visual inspection	—	GB/T 17748-2008	No delamination, no blistering, no wrinkling
	Interlaminar peel strength	N/cm		$\geq$ 4.0
Constant humidity test (85°C×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		$\geq$ 40
	Interlaminar peel strength	N/cm		$\geq$ 4.0
	Breakdown voltage	KV		$\geq$ 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		$\geq$ 40
	Interlaminar peel strength	N/cm		$\geq$ 4.0
	Breakdown voltage	KV		$\geq$ 16
	Peel strength from silica gel	N/cm		Cohesive failure $\geq$ 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