

Inshine101H Product Specification

◆ Product Feature:

1. High heat resistance: RTI \geq 120°C
2. Easy to repair
3. High weather resistance: DH aging after 1000h retention rate > 50%
4. High cost performance



Modified PET (40 μ m)
 PET (260 μ m)
 YSFC01 (5 μ m)

Inshine 101H structure

◆ Product Characteristic:

Item		Unit	Quoted Standard	Value
Film Thickness	standard thickness	μ m	GB/T 13542.2-2009	305
	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 \leq 120; TD \geq 100
Heat shrinkage rate (150°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	\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 1500
Water vapor permeability 38°C-90%RH		g(m ² ·day)	GB/T 26253-2010	\leq 2.0
Water resistance test (98°C \times 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 \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		\geq 40
	Interlaminar peel strength	N/cm		\geq 4.0
	Breakdown voltage	KV		\geq 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		\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