

Model	Colors	Aggregate thickness	Breadth	Structure	Thickness of each layer (Standard thickness)
InshineT01Y (1000V)	White	287μm (0, +5%)	≤1300mm	PVF//Adh //PET// Coating	25μm//7μm //250μm//5μm
InshineT01H (1500V)	White	312μm (0, +5%)	≤1300mm	PVF//Adh //PET// Coating	25μm//7μm //275μm//5μm
InshineT01Y-T (1000V)	Transparent	287μm (0, +5%)	≤1300mm	PVF//Adh //PET// Coating	25μm//7μm //250μm//5μm
InshineT01H-T (1500V)	Transparent	312μm (0, +5%)	≤1300mm	PVF//Adh //PET// Coating	25μm//7μm //275μm//5μm

Test project	Unit	Quoted standard	Specification value
Appearance	--	--	Without impurities, bubble, fold, etc.
Tensile strength	MPa	GB/T 13542.2-2009	TD ≥100 ; MD ≥100
Elongation at break	%	GB/T 13542.2-2009	TD ≥80 ; MD ≥100
Hot-shrinkage rate (150°C×30min)	%	GB/T 13542.2-2009	-0.2≤ TD ≤0.2 ; MD ≤0.6
Coating adhesion	Grade	GB/T 9286-1998	Lv. 0
Peel strength with EVA	N/cm	GB/T 2790-1995	≥60
Breakdown voltage	KV	GB/T 1408.1-2016	≥18
Partial discharge voltage	VDC	IEC 60664-1-2007	InshineT01Y: 1000V InshineT01H: 1500V
Water vapor transmittance	g/(m ² ·day)	GB/T 26253-2010	< 2.0

38°C×90%RH			
Volume resistivity	Ω·cm	GB/T 31838.2-2019	≥1.0*10 ¹⁵
Reflectivity(400nm-1100nm)	%	ASTM E424-2015	≥75% (白色 TPC)
Light transmittance (400nm-1100nm)	%	ASTM E424-2015	≥85% (透明 TPC)
Boiling water treatment	Appearance detection	--	GB/T 17748-2008 No delamination, no foaming, no cracking
	Peel strength with EVA	N/cm	
Cold and heat cycle test TC200	Appearance detection	--	No delamination, no foaming, no cracking
	Yellowing	--	IEC 61215-2-2016 ≤2.0
	Peel strength with EVA	N/cm	≥40
Ultraviolet pretreatment 120KWH/m ²	Appearance detection	--	IEC 61215-2-2016 No delamination, no foaming, no cracking
	Yellowing	--	
Steady-state damp heat test DH1000	Appearance detection	--	No delamination, no foaming, no cracking
	Yellowing	--	IEC 61215-2-2016 ≤2.0
	Peel strength with EVA	N/cm	≥40