

Model	Colors	Aggregate thickness	Breadth	Structure	Thickness of each layer (Standard thickness)
Inshine301Y (1000V)	White, black	287.5μm (0, +5%)	≤1300mm	PVDF//Adh//PET//Coating	22.5μm//10μm//250μm //5μm
Inshine301H (1500V)	White, black	312.5μm (0, +5%)	≤1300mm	PVDF//Adh//PET//Coating	22.5μm//10μm//275μm //5μm
Inshine301Y-T (1000V)	Transparent	287.5μm (0, +5%)	≤1300mm	PVDF//Adh//PET//Coating	22.5μm//10μm//250μm //5μm
Inshine301H-T (1500V)	Transparent	312.5μm (0, +5%)	≤1300mm	PVDF//Adh//PET//Coating	22.5μm//10μm//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	Inshine301Y: 1000V Inshine301H: 1500V	
Water vapor transmittance 38°C×90%RH	g/(m ² ·day)	GB/T 26253-2010	< 2.0	
Volume resistivity	Ω·cm	GB/T 31838.2-2019	≥1.0*10 ¹⁵	
Reflectivity(400nm-1100nm)	%	ASTM E424-2015	≥75% (Write KPC)	
Light transmittance (400nm-1100nm)	%	ASTM E424-2015	≥85% (Transparent KPC)	
Boiling water treatment	Appearance detection	--	No delamination, no foaming, no cracking	
	Peel strength with EVA	N/cm		GB/T 17748-2008
Cold and heat cycle test	Appearance detection	--	IEC 61215-2-2016	No delamination, no foaming, no cracking