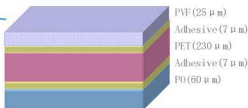


## InshineT05H Product Specification

### ◆ Product Feature:

- High weather resistance;
- High water vapor barrier: Water vapor transmission rate  
 $38^{\circ}\text{C} \times 90\% \text{RH} \leq 1.6$ ;
- High UV barrier: Fluorine film surface under 300KWH,  
 $\Delta b \leq 2$ .



**InshineT05H structure**

### ◆ Product Characteristic:

| Item   |                               | Unit                    | Quoted Standard   | Value  |
|--|-------------------------------|-------------------------|-------------------|--|
| Film Thickness                                       | standard thickness            | μm                      | GB/T 13542.2-2009 | 329  |
|  | allowable tolerance           |                         |                   | ±5%  |
| Tensile Strength (MD/TD)                             |                               | MPa                     | GB/T 13542.2-2009 | MD≥120; TD≥120                               |
| Elongation At Break (MD/TD)                          |                               | %                       | GB/T 13542.2-2009 | MD≥120; TD≥100                               |
| Heat shrinkage rate: (150°C×30min)                   |                               | %                       | GB/T 13542.2-2009 | MD≤1.0; TD≤1.0                               |
| Peel strength from EVA                               |                               | N/cm                    | GB/T 2790-1995    | ≥55  |
| 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°C×90%RH                  |                               | g/(m <sup>2</sup> ·day) | GB/T 26253-2010   | ≤2.0   |
| Water resistance test (98°C×24H)                     | Visual inspection             | —                       | GB/T 17748-2008   | No delamination, no blistering, no wrinkling |
|  | Interlaminar peel strength    | N/cm                    |                   | ≥4.0   |
| Constant humidity test (85°C×85%RH×1000H)            | Visual inspection             | —                       | IEC 61215-2-2016  | No delamination, no blistering, no wrinkling |
|  | Xanthochromia                 | —                       |                   | Δb*≤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                 | —                       |                   | Δb*≤2.0                                      |
| Cold-hot cycle test (TC200) & Wet frozen test (HF10) | Visual inspection             | —                       | IEC 61215-2-2016  | No delamination, no blistering, no wrinkling |
|  | Xanthochromia                 | —                       |                   | Δb*≤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    | —                       |                   | ΔE*≤1.0                                      |
| Salt fog resistance                                  | Visual inspection             | —                       | GB/T 2423.17-2008 | No delamination, no blistering, no wrinkling |
|  | Coating adhesion              | Grade                   |                   | 0  |