



ViTop Film

PVDF Film Designed for PV Module

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ViTop film is PVDF/PMMA-compound/PVDF film and produced by HIUV. ViTop film is specially designed for PV module back sheet.

ViTop Film:

1. Excellent weather resistance: Out layer of ViTop film is super weather resistance plastic PVDF and inside layer is weather resistance plastic PMMA. ViTop has better weatherability than single layer PVDF film whose PVDF content is much lower than out layer of ViTop.
2. Excellent back sheet quality: Surface of ViTop is matte which decreases surface defect of back sheet.
3. Less white spot: ViTop has less white spots comparing to other PVDF film.
4. Easy lamination condition: ViTop has high tensile strength and makes ViTop/PET lamination quality is easy to control.
5. Excellent electric property: ViTop40 is thicker than single layer PVDF film and makes back sheet have excellent electric property.
6. Good adhesive: ViTop is on line corona treatment and has good adhesive strength to PET and junction box.

ViTop Film Specification

Specification	Unit	Test Method	ViTop25	ViTop40
Color	/	/	White	White
Thickness	Micrometer/um	/	About 25	About40
Shrinkage (MD)	%	150°C 30min	<3%	<3%
Shrinkage (TD)	%	150°C 30min	<1%	<1%
Tensile Strength (MD)	N/cm	ASTM D882	>10	>10
Tensile Strength (TD)	N/cm	ASTM D882	>10	>12
Tensile Elongation (MD)	%	ASTM D882	>50	>60
Tensile Elongation (TD)	%	ASTM D882	>10	>15
Color Change after UV aging	△E	2000 hours	< 3	<3
Color Change after Humidity-thermal aging	△E	85°C 85%RH 2000 hours	< 3	<3
White spot number (> 0.3mm ²)	/	Number	< 1	<1
Color Change after PCT	△E	121°C 96 hours	< 5	<5
Remain % of Tensile Strength after PCT	%	Comparing to	> 50	>50
Remain % of Tensile Elongation after PCT	%	original data	> 50	>50

- Above data is typical data and based on HIUV lab test result