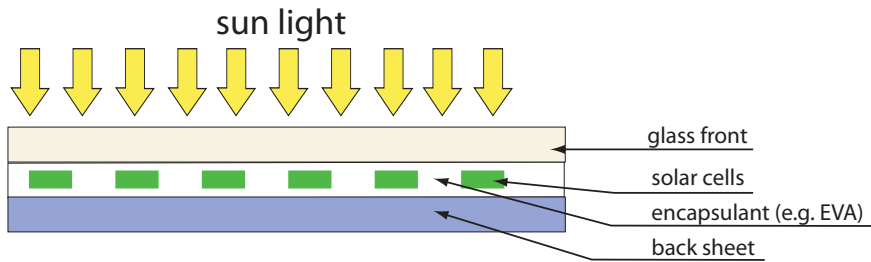


Hostaphan® Polyester Films for Photovoltaic-Applications

Mitsubishi Polyester Film is a long-standing supplier of standard PET films to be as or into photovoltaic back sheets. HOSTAPHAN® gives these back sheets

the excellent dielectric insulation as well as mechanical stability over long time.

Scheme of a PV module



Thanks to our experience with PET films in general and especially in the field of photovoltaic use, we could effectively stabilise the polyester. To meet the increasing market interest for fluoro polymer free PV back sheet solutions, we have developed HOSTAPHAN® PET films with improved weatherability. This is based on HOSTAPHAN®'s increased UV resistance

and UV barrier as well as its significantly increased performance in high temperature high humidity environments. HOSTAPHAN® can be combined with standard PET films, e.g. Hostaphan® RN P, and other polymer films for a variety of laminate structures suitable for PV back sheets.

Advantages of HOSTAPHAN® Films for Photovoltaic - Applications

- Improved life time compared to standard PET films
- Increased UV stability and UV barrier
- Dielectric insulation
- High mechanical strength and flexibility
- Homogeneous quality
- Environmental friendly, does not contain the halogens chlorine, bromine and fluorine
- Available to serve the market
- Significantly increased life time compared with other solutions with stabilised PET films already in the market



Overview of HOSTAPHAN® Films for Photovoltaic - Applications

Grade	Colour	Thick-ness	PDV	Surface-Treatment	DHT (85°/85%)	RTI	Flame Spread	UV-Stabi- lity
LHOW 50	white	50 µm	n.d.	-	≥ 2700 h	105 °C	n.d.	good
LHB 50	black	50 µm	n.d.	-	≥ 2700 h	105 °C	n.d.	good
WIN 125 EHB	white	125 µm	≥ 600 V	Both sides for EVA (> 60N/cm) and junc- tion box adhesion	≥ 2000 h	130 °C	RP15	good
WIN 175 EHB	white	175 µm	≥ 700 V		≥ 2000 h	130 °C	RP75	good
BIN 175 EHB	black	175 µm	≥ 800 V		≥ 2000 h	105 °C	RP50	good
WIN 250 EHB	white	250 µm	≥ 900 V		≥ 2000 h	130 °C	RP75	good
WIN 300 JBEHB	white	300 µm	≥ 1000 V		≥ 2000 h	130 °C	RP25	good

Details of these and other measurements on request

All HOSTAPHAN® PET films can be used as core- or skin-layer in a laminated back sheet. The members of HOSTAPHAN® WIN and BIN product family are

also ready to be used as single layer stand-alone back sheets.





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