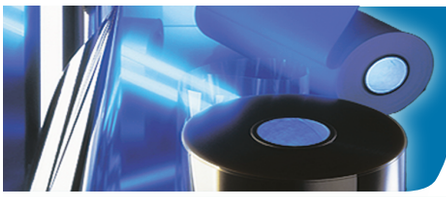

HOSTAPHAN®

Preliminary data sheet

Hostaphan® GUV 4600

Glass clear, UV stable polyester film

Hostaphan® GUV 4600 is a glass clear film made of polyethylene terephthalate (PET) for outdoor applications and UV absorption. It is characterized by its very high resistance against and superior absorption of UV radiation. Good bonding strength is achievable with coatings and metal layers. Further excellent properties are its high mechanical strength, dimension stability and very smooth, glossy surface.

Hostaphan® GUV 4600 is one side chemically treated for improved slip as well as for improvement of the adhesion of coatings and printing inks.

Typical properties

Property	*Thickness µm*	*Units*	*Value*		*Test Method*	*Test Conditions*
			MD	*TD*		
MECHANICAL						
Tensile strength	50	N/mm^2	180	230	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	50	%	200	140	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	50	%	1.2	0.2	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	50	%	≤ 70 90 90		ASTM-D 1003-61 method A	380 nm, UV range 400 nm, optical range 500 nm, optical range 1 000 nm, IR range
Haze	50	%	0.7		ASTM-D 1003-61 method A	Enlarged measurement angle
Yellowness Index	50	-	1.5		ASTM-E313-96/ D65	In transmission
PHYSICAL/CHEMICAL						
Density	50	g/cm^3	1.4		ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

Applications:

- Outdoor use
- Protection against UV radiation
- Coating
- Printing e.g. for surface layers, packaging materials, reinforcement.

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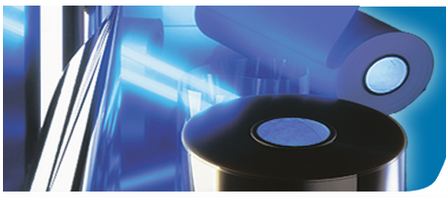
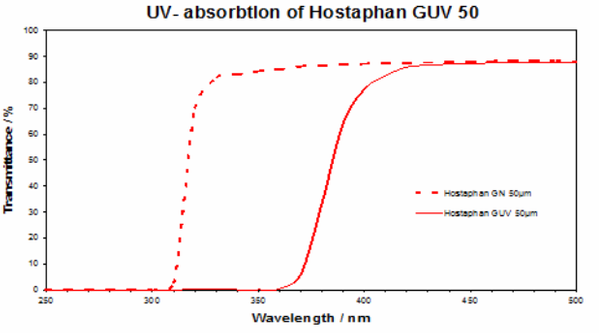


HOSTAPHAN®

Hostaphan® GUV 4600 can easily be coated or printed with functional layers.
The film is slip coated for high speed processing.

GUV 4600: one side treated, treated side wound out.



Delivery program Hostaphan® GUV 4600

Thickness	*Yield*		*Roll length*	*Roll-diameter*
µm	*g/m²*	*m²/kg*	*m*	*mm*
50	70	14	On request	On request

Core diameter: 152.4 mm (6”).

Rolls are supplied with knurls (15 mm each side).

This data sheet reflects our state of knowledge at the time this was prepared. The purpose is to provide an overview of the characteristics of our products and their potential uses. The values given reflect the typical characteristics of the film. They are not specification limits. They are neither a guarantee of specific properties nor the suitability of products in specific applications. The user must observe industrial property rights, such as patents or trademarks. The quality of our products is covered by the terms of the General Conditions of Sale of MITSUBISHI POLYESTER FILM GmbH.

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