

HOSTAPHAN®

Hostaphan® GN

Glass clear polyester film

Hostaphan® GN is a glass clear biaxially oriented film, made of polyethylene terephthalate (PET) and is characterized by its high transparency and surface gloss and its low haze accompanied by its excellent mechanical strength and dimensional stability.

Hostaphan® GN is one or two side chemically treated for improved slip and processability as well as for improvement of the adhesion of coatings and printing inks. Details see next page!

Typical properties

Property	Thickness	Units	Value		Test Method	Test Conditions				
	μm		MD	TD						
MECHANICAL										
Tensile strength	50-250	N/mm²	190	220	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.				
Elongation at break	50-250	%	195	145	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.				
Young's Modulus	50-125 175-250	N/mm²	4000 3900	4800 4500	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.				
F5-value (stress to obtain 5% elongation)	50-96 125-250	N/mm²	105 110	100 105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.				
THERMAL										
Shrinkage	50-250	%	1.0	0.1	DIN 40634	150°C, 15 min.				
OPTICAL										
Transparency	50-250	%	91		ASTM-D 1003-61 method A	-				
Haze (for 1-side treated film)	50, 75 96 125 175 250	%	0.5 0.6 0.6 0.7 1.2		ASTM-D 1003-61 method A	Enlarged measurement angle				
SURFACE										
Roughness Ra value	50-250	nm	10		DIN 4768	Cut off 0.25 mm				
PHYSICAL/CHEMICA	\L									
Density	50-250	g/cm3	1.4		ASTM-D 1505-68 method C	23°C				

MD = Machine direction, TD = Transverse direction





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Product description:

Hostaphan® GN 4600A/460I/4660A:

The chemical treatment of these grades provides excellent adhesion primarily to water based coatings and printing inks.

Hostaphan® GN 4600A: One side treated, treated side wound out. **Hostaphan® GN 460I:** One side treated, treated side wound in.

Hostaphan® GN 4660A: Two side treated.

Hostaphan® GN CT01O/CT01I/CT01B/CT02O/CT02B:

The chemical treatment of these grades provides excellent adhesion primarily to solvent based coatings and printing inks.

Hostaphan® GN CT010: One side treated, treated side wound out One side treated, treated side wound in

Hostaphan® GN CT01B: Two side treated

Hostaphan® GN CT020: One side treated, treated side wound out

Hostaphan® GN CT02B: Two side treated

Applications:

- Membrane touch switches
- Imaging/Business graphics
- Printing
- Labels

Product advantages:

- Suitable for all standard printing processes (offset, flexographic, rotogravure and book printing).
- Glass clear films with smooth surfaces for excellent optics.
- Outstanding heat resistance.



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Delivery program Hostaphan® GN

Thickness	Yield		Roll length	Roll-	Roll length	Roll-
				diameter		diameter
μm	g/m²	m²/kg	m	mm	m	mm
50	70	14.3	3 200	485	6 400	670
75	105	9.5	2 000	475	4 000	650
96	134	7.4	1 600	480	3 200	655
125	175	5.7	1 280	485	2 560	670
175	245	4.1	800	475	1 600	630
250	350	2.9	600	475	1 200	650

Other roll lengths on request. Core diameter: 152.4 mm (6")

Rolls are preferably supplied with knurls.

For detailed information of available grades please contact your local sales representative or directly us.

The properties shown in this technical data sheet only apply to the film itself. We cannot guarantee the properties of an intermediate or final product made from or using the film. Instead, the intermediate or final product must be subjected to standard industrial testing.

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.