



Hostaphan® BHO

Black, light blocking polyester film

Hostaphan® BHO is a black opaque, biaxially oriented film made of polyethylene terephthalate (PET). It is characterized by a very low transparency, extremely high optical density and constant black appearance.

Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	25, 50, 75	N/mm ²	210	260	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	25, 50, 75	%	120	80	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	25, 50, 75	N/mm ²	4500	5100	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)	25, 50, 75	N/mm ²	110	110	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	25, 50, 75	%	1.4	0.0	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	25, 50, 75	%	< 0.1		ASTM-D 1003-61 method A	-
Haze	25, 50, 75	%	100		ASTM-D 1003-61 method A	Enlarged measurement angle
Brightness/L*	25, 50, 75	-	30		DIN 5033	In reflection
Yellowness Index	25, 50, 75	-	- 5		ASTM-E313-96/ D65	In reflection
a*/b*	25, 50, 75	-	- 0.1/- 1.1		DIN 5033	In reflection
Optical density	25 50 75	-	> 4.5 > 4.8 > 5.0		Internal method Similar to JIS K7605	-
SURFACE						
Coefficient of friction (static)	25, 50, 75	-	0.34		DIN53375 or ASTM-D 1894	-
Gloss	25 50, 75	-	65 72		DIN 67530	Measuring angle 20°
Roughness Ra value	25, 50, 75	nm	50		DIN 4768	Cut off 0.25 mm



HOSTAPHAN®

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
PHYSICAL/CHEMICAL						
Density	25, 50, 75	g/cm^3	1.41		ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

Delivery program Hostaphan® BHO

Thickness μm	Yield		Roll length <i>m</i>	Roll-diameter <i>mm</i>
	g/m^2	m^2/kg		
25	35	29	On request	On request
50	70	14		
75	110	9.6		

Core diameter: 152.4 mm (6")

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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