



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	-	50 72		DIN 67530	Measuring angle 20°
Roughness Ra value	25, 50, 75	nm	50		DIN 4768	Cut off 0.25 mm

