

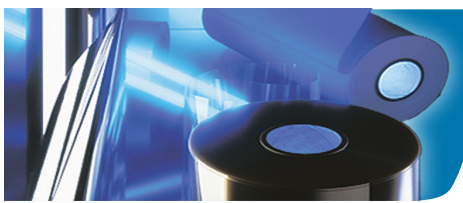
Hostaphan® MK

Highly matte polyester film

Hostaphan® MK is a biaxially oriented film, made of polyethylene terephthalate (PET). It is characterized by two consistent matte surfaces and a strong light dispersion.

Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	12 19, 23 50, 75 125 250	N/mm ²	160 180 190 190 150	240 240 220 210 200	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12 19, 23 50, 75 125 250	%	130 130 150 150 140	70 80 110 110 100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	12 19, 23 50, 75 125 250	N/mm ²	4000 4000 4100 4200 3600	5200 5000 4700 4800 4400	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)	12, 19, 23 50, 75 125 250	N/mm ²	100 110 115 110	100 115 120 115	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12 19, 23 50, 75 125 250	%	1.4 1.2 1.0 1.2 0.9	0.0 0.2 0.0 0.4 0.6	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	12 19, 23 50, 75 125 250	%		85 84 70 55 52	ASTM-D 1003-61 method A	-
SURFACE						
Coefficient of friction (static)	12-250	-		0.35	DIN53375 or ASTM-D 1894	-
Gloss	12-75 125 250	-		30 20 25	DIN 67530	Measuring angle 60°



Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
Roughness Ra value	12 19-250	nm	300 340		DIN 4768	Cut off 0.25 mm
PHYSICAL/CHEMICAL						
Density	12-250	g/cm ³	1.4		ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

Applications:

- Release films for the production of polymer panels with matte surfaces
- Hot stamping films for matte surfaces effects
- Laminates with matte surfaces
- Diffuser film for light

Delivery program Hostaphan® MK

Thickness µm	Yield		Roll length m	Roll-diameter mm	Roll length m	Roll-diameter mm
	g/m ²	m ² /kg				
12	17	60	12 000	470	24 000	650
19	27	38	9 200	500	18 400	700
23	32	31	9 600	550	19 200	800
50	70	14	6 400	670	9 600	810
75	105	9.6	4 000	650	6 000	790
125	175	5.7	1 280	485	2 560	680
250	350	2.9	300	300	600	475

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

This Hostaphan® film is permitted for food contact according to the current version of EU Regulation 1935/2004 and 10/2011 as well as FDA regulation 21 CFR 177.1630 under the conditions set out in our current Declaration of Compliance. Before using this Hostaphan® film in a food contact article, please request this Declaration of Compliance.

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.