

Hostaphan® YNK

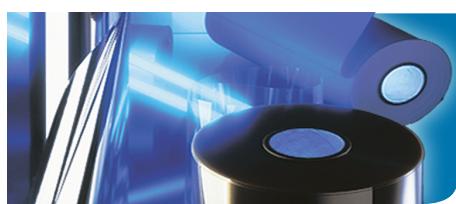
Amber polyester film

Hostaphan® YNK is an amber coloured biaxially oriented, coextruded film, made of polyethylene terephthalate (PET). This film exhibits a gold look after metallization or metal lamination.

Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	12	N/mm ²	260	260	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12	%	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	N/mm ²	4600	5000	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	N/mm ²	100	105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12	%	1.5	0.2	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	12	%	82		ASTM-D 1003-61 method A	-
Haze	12	%	2		ASTM-D 1003-61 method A	Enlarged measurement angle
Whiteness (Berger)	12	-	- 4 ± 5		ASTM-E 308	In reflection
Yellowness Index	12	-	35 ± 5		ASTM-E 313-96/ D65	In transmission
CIE Lab	12	%			ISO 7724	In reflection
L*			91 ± 1			
a*			1.95 ± 0.3			
b*			18 ± 2			
C*			18.5 ± 1.5			
h*			84 ± 0.75			
SURFACE						
Coefficient of friction (static)	12	-	0.4		DIN53375 or ASTM-D 1894	-
PHYSICAL/CHEMICAL						
Density	12	g/cm ³	1.4		ASTM-D 1505-68 method C	23°C
Water absorption	12	%	0.5		ASTM-D 570	4 days in water at 23°C





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BARRIER						
Air	12	cm ³ /m ² x d x bar	60		DIN 53380	23°C, 0% r.h.
Oxygen	12	cm ³ /m ² x d x bar	110		DIN 53380	23°C, 50% r.h.
Water vapour	12	g/m ² x d	16		DIN 53122	23°C, 85% r.h.
Nitrogen	12	cm ³ /m ² x d x bar	35		DIN 53380	23°C, 0% r.h.
Carbon dioxide	12	cm ³ /m ² x d x bar	500		DIN 53380	23°C, 0% r.h.

MD = Machine direction, TD = Transverse direction

Hostaphan® YNK is also available with one side treatment for enhanced adhesion properties:

- Hostaphan® YNK CSRO (outside coated!)
- Hostaphan® YNK 2600

Delivery program Hostaphan® YNK

Thickness µm	Yield		Roll length m	Roll- diameter mm	Roll length m	Roll- diameter mm
	g/m ²	m ² /kg				
12	17	60	24 000	650	48 000	900

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.