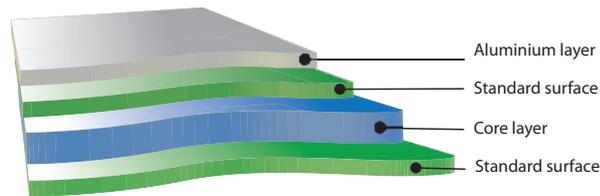


Hostaphan® RNK M

Coextruded metallized film

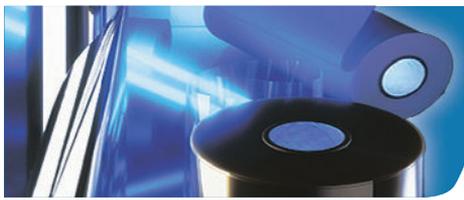
Hostaphan® RNK M is a metallized, biaxially oriented coextruded film, made of polyethylene terephthalate (PET) and characterized by outstanding properties.

Layer structure of Hostaphan® RNK M



Typical properties

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	8-10	N/mm ²	260	260	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	12-30		260	260		
	36		260	280		
	50-75		185	270		
Elongation at break	8-10	%	120	120	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	12-23		120	120		
	30-36		140	125		
	50-75		200	120		
Young's Modulus	8-10	N/mm ²	4700	5000	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
	12-23		4400	5000		
	30-36		4500	5000		
	50-75		4000	5500		
F5-value (stress to obtain 5% elongation)	8-10	N/mm ²	105	100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	12-75		110	105		
THERMAL						
Shrinkage	8-10	%	1.6	0.1	DIN 40634	150°C, 15 min.
	12-23		1.5	0.2		
	30-75		1.0	0.2		
OPTICAL						
Optical density Decorative applications Barrier applications	8-75	-	2.0-2.5 2.5-3.1		Macbeth TD 904	Red filters
SURFACE						
Coefficient of friction (static)	8-75	-	0.4 - 0.45		DIN53375 or ASTM-D 1894	-



Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
PHYSICAL/CHEMICAL						
Density	8-75	g/cm^3	1.4		ASTM-D 1505-68 method C	23°C
BARRIER (O.D. > 2.5)						
Oxygen	8-10 12-75	$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	< 2 < 1		DIN 53380	23°C, 50% r.h.
Water vapour	8-10 12-75	$\text{g}/\text{m}^2 \times \text{d}$	< 2 < 0.5		DIN 53122	23°C, 85% r.h.

MD = Machine direction, TD = Transverse direction

Applications:

Films for packaging:

- Lamination
- Lidding

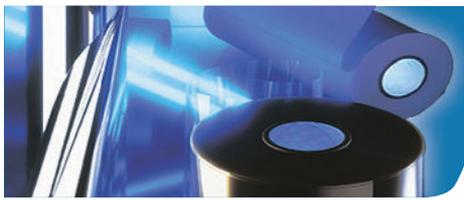
Decorative films:

- Cardboard lamination

Delivery program Hostaphan® RNK M

Thickness μm	Yield		Roll length <i>m</i>	Roll- diameter <i>mm</i>	Roll length <i>m</i>	Roll- diameter <i>mm</i>
	g/m^2	m^2/kg				
8	11	90	24 000	530		
10	14	71	24 000	590	36 000	710
12	17	60	24 000	650	48 000	900
15	21	48	11 200	490	33 600	830
19	27	38	9 200	500	18 400	700
23	32	31	9 600	550	19 200	800
30	42	24	9 360	630	15 600	800
36	50	20	8 000	635	12 000	770
50	70	14	6 400	670	9 600	810
75	110	9.6	4 000	650	6 000	790

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



HOSTAPHAN®

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.

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