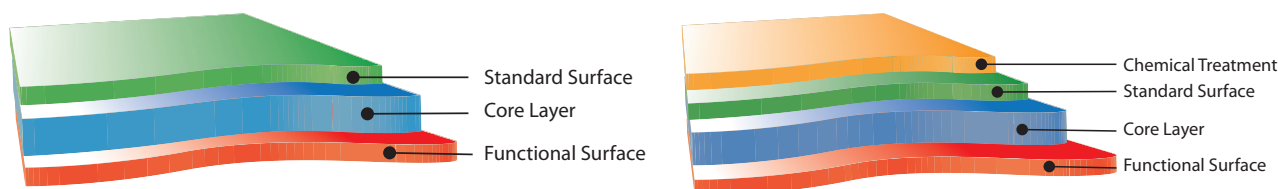


Hostaphan® RD and RD 26HC

Transparent polyester film with one smooth, blocking surface

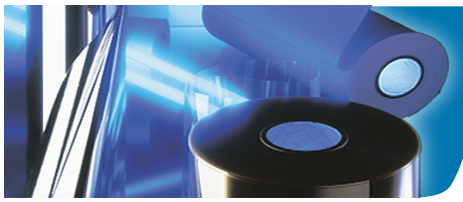
Hostaphan® RD is a biaxially oriented, coextruded film made of polyethylene terephthalate (PET) with different topography of the two surfaces. While the surface structure of one surface is the same as a standard PET film, the functional surface side displays an extremely regular surface structure with very low roughness. Hostaphan® RD 26HC has an additional chemical treatment on the standard surface. A corona treatment on the chemically treated side is not necessary but could negatively affect properties. The film is furthermore not suited for applications where it is retorted or pasteurized.

Layer structure of Hostaphan® RD and RD 26HC



Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	12	N/mm^2	270	250	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	23		250	270		
	36		285	280		
Elongation at break	12	%	125	125	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	23		135	125		
	36		190	130		
F5-value (stress to obtain 5% elongation)	12, 23, 36	N/mm^2	110	100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12	%	1.5	0.1	DIN 40634	150°C, 15 min.
	23		1.4	0.1		
	36		1.1	0.2		
OPTICAL						
Haze	12	%	1.7		ASTM-D 1003- 61 method A	Enlarged measurement angle
	23		2.0			
	36		2.7			



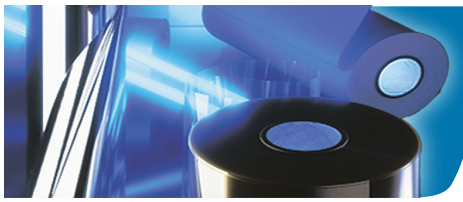
Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
SURFACE						
Coefficient of friction (static)	12, 23, 36	-			DIN53375 or ASTM-D 1894	-
Standard surface/ Standard surface			0.4			
Standard surface/ Functional surface			0.4			
Functional surface/ Functional surface			blocks			
Gloss/Brilliance	12, 23, 36	-	200		DIN 67530	Measuring angle 20°
Mean Roughness	12, 23, 36	nm			DIN 4768	Cut off 0.25 mm
Standard surface			50			
Functional surface			20			
PHYSICAL/CHEMICAL						
Density	12, 23, 36	g/cm^3	1.4		ASTM-D 1505-68 method C	23°C
BARRIER						
Air	12	$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	60		DIN 53380	23°C, 0% r.h.
Oxygen		$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	110		DIN 53380	23°C, 50% r.h.
Water vapour		$\text{g}/\text{m}^2 \times \text{d}$	16		DIN 53122	23°C, 85% r.h.
Nitrogen		$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	35		DIN 53380	23°C, 0% r.h.
Carbon dioxide		$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	500		DIN 53380	23°C, 0% r.h.

MD = Machine direction, TD = Transverse direction

Applications:

Laminates for flexible packaging with a high coefficient of friction on the outer side of the packaging:

- High brilliance after metallization and high gas barrier
- High brilliance hot stamping films
- High brilliance holograms
- Process films with a very smooth surface for maximum brilliance



Delivery program Hostaphan® RD and RD 26HC

Thickness <i>μm</i>	Yield		Roll length <i>m</i>	Roll diameter <i>mm</i>	Roll length <i>m</i>	Roll diameter <i>mm</i>
	<i>g/m²</i>	<i>m²/kg</i>				
12	17	60	24 000	650	48 000	900
23	32	31	9 600	550	19 200	800
36	50	20	6 000	560	12 000	770

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.