



Hostaphan[®] RD and RD 26HC

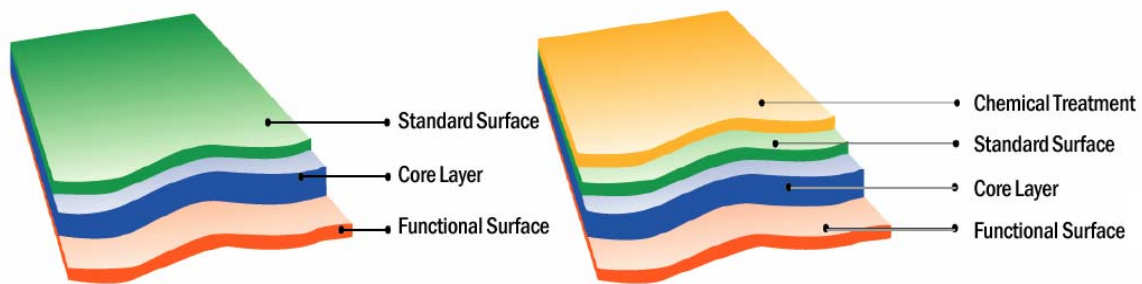
Film with one very smooth and glossy surface

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, 23	N/mm ²	250	270	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12, 23	%	120	105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
F5-value (stress to obtain 5% elongation)	12, 23	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, 23	%	1.4	0.1	DIN 40634	150°C, 15 min.



Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD*	TD*		
OPTICAL						
Haze	12, 23	%	< 1.7		ASTM-D 1003-61 method A	Enlarged measurement angle
Brilliance	12, 23	%	Approx. 200		DIN 76530	20°
SURFACE						
Coefficient of friction (static)	12, 23	-			DIN53375 or ASTM-D 1894	-
Standard surface/ Standard surface			0.4			
Standard surface/ Functional surface			0.4			
Functional surface/ Functional surface			blocks			
Gloss	12	-	200		DIN 67530	Measuring angle 20°
Mean Roughness Standard surface Functional surface	12, 23	nm	50 < 20		DIN 4768	Cut off 0,25 mm
PHYSICAL/CHEMICAL						
Density	12, 23	g/cm ³	1.4		ASTM-D 1505-68 method C	23°C
BARRIER						
Air	12	cm ³ /m ² x d x bar	60		DIN 53380	23°C, 0% r.h.
Oxygen		cm ³ /m ² x d x bar	110		DIN 53380	23°C, 50% r.h.
Water vapour		g/m ² x d	16		DIN 53122	23°C, 85% r.h.
Nitrogen		cm ³ /m ² x d x bar	35		DIN 53380	23°C, 0% r.h.
Carbon dioxide		cm ³ /m ² x d x bar	500		DIN 53380	23°C, 0% r.h.

MD = Machine direction, TD = Transverse direction

Possible applications for Hostaphan® RD and RD 26HC:

- 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


Delivery program Hostaphan® RD and RD 26HC

Thickness μm	Thickness range μm	Yield		Roll length m	Roll diameter mm	Roll length m	Roll diameter mm
		g/m^2	m^2/kg				
12	± 0.5	17	60	24 000	650	48 000	900
23	± 1.0	32	31	9 600	550	19 200	800

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

Hostaphan® RD and RD 26HC are permitted for food contact according to the current version of EC Directive 2002/72/EC and FDA regulation 21 CFR 177.1630 under the conditions set out in our current Declaration of Compliance. Before using Hostaphan® RD and RD 26HC in a food contact article, please request this Declaration of Compliance.

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