

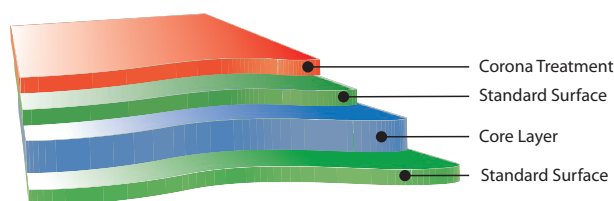


HOSTAPHAN™ RNK C

Transparent polyester film with one side corona treatment

HOSTAPHAN™ RNK C is a biaxially oriented coextruded film made of polyethylene terephthalate (PET) with one side corona treatment for packaging laminates. The treated surface gives excellent bond strength for printing inks and laminating adhesives, because of the high surface energy of > 50 mN/m. This level of surface energy is guaranteed for 6 months after delivery, provided that the film is kept on the roll in its original packaging.

Layer structure of HOSTAPHAN™ RNK C



Typical properties

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	12-23 36	N/mm ²	260 260	260 280	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12-23 36	%	120 140	120 125	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	12-23 36	N/mm ²	4400 4500	5000 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)	12-23 36	N/mm ²	110 110	105 105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12-23 36	%	1.5 1.0	0.2 0.2	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	12-36	%	90		ASTM-D 1003-61 method A	-
Haze	12 15 19 23 36	%	2.0 2.0 2.1 2.2 3.0		ASTM-D 1003-61 method A	Enlarged measurement angle



Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
SURFACE						
Coefficient of friction (static)	12-36	-	0.4		DIN53375 or ASTM-D 1894	-
Surface tension (Treated side)	12-36	mN/m (dyne/cm)	> 50 (6 month after delivery)		DIN 53364	Test inks
PHYSICAL/CHEMICAL						
Density	12-36	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	12	$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	110		DIN 53380	23°C, 50% r.h.
Water vapour	12	$\text{g}/\text{m}^2 \times \text{d}$	16		DIN 53122	23°C, 85% r.h.
Nitrogen	12	$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	35		DIN 53380	23°C, 0% r.h.
Carbon dioxide	12	$\text{cm}^3/\text{m}^2 \times \text{d} \times \text{bar}$	500		DIN 53380	23°C, 0% r.h.

MD = Machine direction, TD = Transverse direction

Applications:

- Printing
- Laminating

Delivery program HOSTAPHAN™ RNK C

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				
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
36	50	20	8 000	635	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.