



Hostaphan® RNK 2600

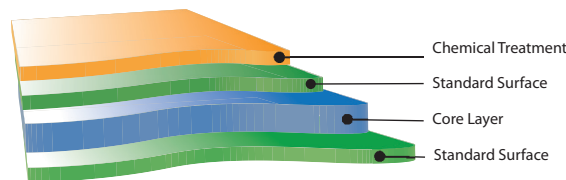
Chemically treated transparent polyester film for printing, coating and metallisation

Hostaphan® RNK 2600 is a biaxially oriented coextruded film made of polyethylene terephthalate (PET) which is chemically pre-treated on one side to improve adhesion of Al-metallising, printing inks, adhesives and coatings. Hostaphan® RNK 2600 is generally not suitable for laminates, which have to be resistant to pasteurisation or boiling water or suitable for steam sterilisation.

The outstanding properties of the chemical pre-treatment render corona-treatment of Hostaphan® RNK 2600's function layer unnecessary. On the contrary, corona-treating the pre-treated surface could possibly have a detrimental effect on its properties. There are no restrictions on the corona treatment for the untreated side of Hostaphan® RNK 2600.

When metallising on the chemically treated surface of Hostaphan® RNK 2600, outstanding metal adhesion and subsequent lamination bond strength is achievable.

Layer structure of Hostaphan® RNK 2600



Typical properties

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	12-23 36 50-75	N/mm ²	260 260 185	260 280 270	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12-23 36 50-75	%	120 140 200	120 125 120	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 50-75	N/mm ²	4400 4500 4000	5000 5000 5500	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)	12-75	N/mm ²	110	105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.



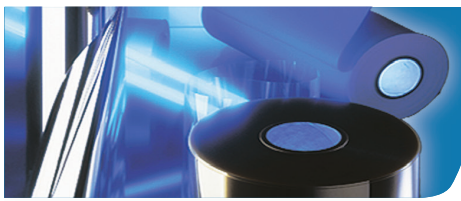
Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
THERMAL						
Shrinkage	12-23 36-75	%	1.5 1.0	0.2 0.2	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	12-75	%	90		ASTM-D 1003-61 method A	-
Haze	12-23 36 50-75	%	2 3 4		ASTM-D 1003-61 method A	Enlarged measurement angle
SURFACE						
Coefficient of friction (static)	12-75	-	0.4		DIN53375 or ASTM-D 1894	-
Surface tension	12-75	mN/m (dyne/cm)	43		DIN 53364	Test inks
PHYSICAL/CHEMICAL						
Density	12-75	g/cm^3	1.4		ASTM-D 1505-68 method C	23°C
Water absorption	12-75	%	0.5		ASTM-D 570	4 days in water at 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:

- Printed laminated films for packaging
- Laminated films with evaporized metal and metal oxide barrier layers
- Laminated films with particularly high bond strength requirements
- Silicon coated films

Hostaphan® RNK 2600 is also available with corona treatment on the 2nd surface (12 μm). Please refer to the data sheet of Hostaphan® RNK 260C.



Delivery program Hostaphan® RNK 2600

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
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
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")

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.