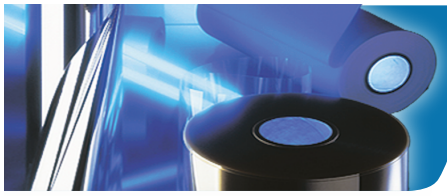

HOSTAPHAN®

Hostaphan® RN 12-30

Universal film

Hostaphan® RN is a transparent, biaxially oriented film made of polyethylene terephthalate (PET) and characterized by outstanding physical properties.

Typical properties

Property	*Thickness µm*	*Units*	*Value*		*Test Method*	*Test Conditions*
			MD	*TD*		
MECHANICAL						
Tensile strength	12-23 30	N/mm²	230 240	260 265	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12-23 30	%	110 130	100 100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young´s Modulus	12-30	N/mm²	4400	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)	12-30	N/mm²	110	105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12-23 30	%	1.3 1.3	0.1 0.3	DIN 40634	150°C, 15 min.
OPTICAL						
Haze	12 15 19 23 30	%	4 4.5 6 7 8		ASTM-D 1003-61 method A	Enlarged measurement angle
SURFACE						
Coefficient of friction (static)	12-30	-	0.4		DIN53375 or ASTM-D 1894	-
PHYSICAL/CHEMICAL						
Density	12-30	g/cm3	1.4		ASTM-D 1505-68 method C	23°C
BARRIER						
Air Oxygen Water vapour Nitrogen Carbon dioxide	12 12 12 12 12	cm³/m² x d x bar cm³/m² x d x bar g/m² x d cm³/m² x d x bar cm³/m² x d x bar	60 110 16 35 500		DIN 53380 DIN 53380 DIN 53122 DIN 53380 DIN 53380	23°C, 0% r.h. 23°C, 50% r.h. 23°C, 85% r.h. 23°C, 0% r.h. 23°C, 0% r.h.

MD = Machine direction, TD = Transverse direction

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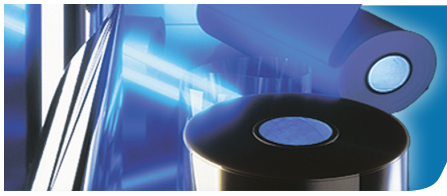

HOSTAPHAN®

Hostaphan® RN is the standard product for the following applications:

Films for packaging
- Coating
- Laminating
- Metallizing
- Printing

Decorative films

Gloss laminations

Adhesive tapes

Insulation tapes

Release
- Transfer film
- Release film for thermosetting resins

Hot stamping/Roll leaf

Delivery program Hostaphan® RN

Thickness	*Thickness range*	*Yield*		*Roll length*	*Roll diameter*	*Roll length*	*Roll diameter*
µm	*µm*	*g/m²*	*m²/kg*	*m*	*mm*	*m*	*mm*
12	± 0.5	17	60	24 000	650		
15	± 0.5	21	48	11 200	490	22 400	680
19	± 0.8	27	38	9 200	500	18 400	700
23	± 1.0	32	31	9 600	550	19 200	800
30	± 2.0	42	24	5 300	485		

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 EC Directive 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. It neither guarantees 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.

Edition 10/11

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