

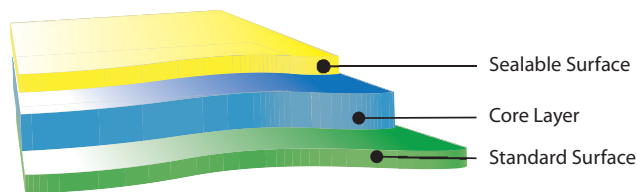


## Hostaphan® RHS

### Transparent, heat-sealable polyester film

Hostaphan® RHS is a biaxially oriented, coextruded film made of polyethylene terephthalate (PET) with one heat sealable surface. It seals to itself and to other types of polyesters, e.g. APET, A/CPET and unsaturated polyesters but not to polyolefins such as PE, PP and PS. The seal is not peelable.

### Layer structure of Hostaphan® RHS



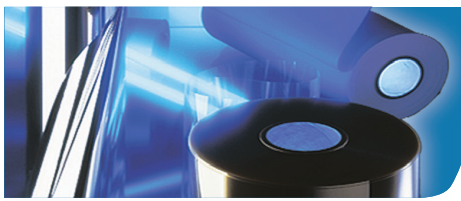
### Typical properties

Property	Thickness $\mu\text{m}$	Units	Value		Test Method	Test Conditions
			MD	TD		
<b>MECHANICAL</b>						
Tensile strength	12-25 30 75	N/mm <sup>2</sup>	250 230 185	230 230 270	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12-25 30 75	%	125 135 200	125 130 120	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	12-30 75	N/mm <sup>2</sup>	4300 4000	4600 5300	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 <sup>2</sup>	105	95	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
<b>THERMAL</b>						
Shrinkage	12, 15, 20 25, 30 75	%	1.6 1.4 1.0	0.1 0.1 0.1	DIN 40634	150°C, 15 min.
<b>OPTICAL</b>						
Haze	12-25 30 75	%	2 2.2 3.5		ASTM-D 1003-61 method A	Enlarged measurement angle



Property	Thickness $\mu\text{m}$	Units	Value		Test Method	Test Conditions
			MD	TD		
<b>SURFACE</b>						
Coefficient of friction (static)	12-75	-			DIN53375 or ASTM-D 1894	-
Sealing side/sealing side				blocks		
Sealing side/standard side				0.4		
Standard side/standard side				0.4		
Surface tension Standard side	12-75	mN/m (dyne/cm)		43	DIN 53364	Test inks
<b>PHYSICAL/CHEMICAL</b>						
Density	12-75	$\text{g/cm}^3$		1.39	ASTM-D 1505-68 method C	23°C
<b>BARRIER</b>						
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.
<b>HEAT SEAL/PEEL PARAMETERS</b>						
Minimum sealing temperature	12-75	°C		130	-	-
Sealing strength	12-75	N/15 mm		2-3	-	Finseal @130°C, 4 bar, 0.5 sec, T-peel

MD = Machine direction, TD = Transverse direction



## Delivery program Hostaphan® RHS

Thickness $\mu\text{m}$	Yield		Roll length <i>m</i>	Roll- diameter <i>mm</i>
	$\text{g}/\text{m}^2$	$\text{m}^2/\text{kg}$		
12	17	60	24 000	650
15	21	48	11 200	490
20	28	36	9 200	540
25	35	29	On request	On request
30	42	24	"	"
75	104	9.6	"	"

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

**Hostaphan® RHS** can be used in packaging applications and as protective film for glass fibre reinforced panels.

**Hostaphan® RHS** is also available with various pre-treatments:

**Hostaphan® RHS C**, 12-15  $\mu\text{m}$ : Corona treatment on the non-sealing side.

**Hostaphan® RHS 2600**, **Hostaphan® RHS CT01** or **Hostaphan® RHS 2CSR**, 12-30  $\mu\text{m}$ : Chemically treated on the non-sealing side for improved adhesion of evaporated metal layers, printing inks or coatings.

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.