

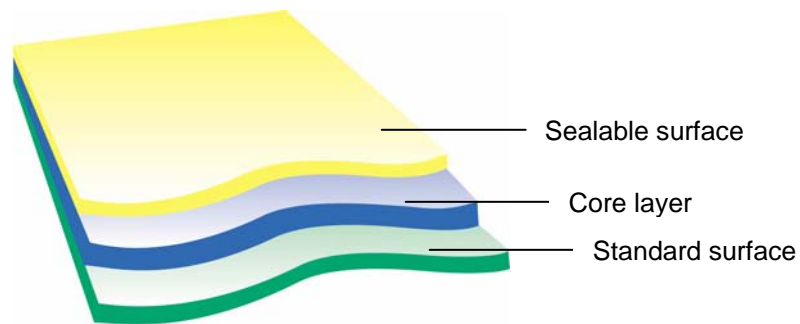


Hostaphan[®] RHS

Heat sealable 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 μm	Units	Value		Test Method	Test Conditions
			MD*	TD*		
MECHANICAL						
Tensile strength	12-30 36 75	N/mm ²	240 240 170	240 240 220	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12-23 30-36 75	%	120 140 220	110 120 120	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	12-30 36 75	N/mm ²	4300 4300 3900	4900 4700 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)	12-75	N/mm ²	100	100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12-30 36-75	%	1.4 1.1	0.1 0.3	DIN 40634	150°C, 15 min.



Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD*	TD*		
OPTICAL						
Haze	12-25 30-36 75	%	2 3 5		ASTM-D 1003-61 method A	Enlarged measurement angle
SURFACE						
Coefficient of friction (static) Side A/A Side A/C Side C/C	12-75	-	blocks 0.4 0.4		DIN53375 or ASTM-D 1894	-
Surface tension Side C	12-75	mN/m (dyne/cm)	43		DIN 53364	Test inks
PHYSICAL/CHEMICAL						
Density	12-75	g/cm ³	1.39		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	12	cm ³ /m ² x d x bar	110		DIN 53380	23°C, 50% r.h.
Water vapour	12	g/m ² x d	16		DIN 53122	23°C, 85% r.h.
Nitrogen	12	cm ³ /m ² x d x bar	35		DIN 53380	23°C, 0% r.h.
Carbon dioxide	12	cm ³ /m ² x d x bar	500		DIN 53380	23°C, 0% r.h.
HEAT SEAL/PEEL PARAMETERS						
Minimum sealing temperature	12-75	°C	130		-	-
Sealing strength	12-30 36-75	N/15 mm	2-3 3-5		-	Finseal @130°C, 4 bar, 0.5 sec, T-peel

MD = Machine direction, TD = Transverse direction



Delivery program Hostaphan® RHS

Thickness μm	Thickness range μm	Yield		Roll length m	Roll diameter mm
		g/m^2	m^2/kg		
12	± 0.5	17	60	24 000	650
15	± 0.5	21	48	11 200	490
20	± 1.0	28	36	9 200	540
25	± 2.0	35	29	On request	On request
30	± 2.0	42	24	”	”
36	± 2.0	50	20	”	”
75	± 3.5	104	10	”	”

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, 12-30 μm : Corona treatment on the non-sealing side.

Hostaphan® RHS 2600 or **Hostaphan® RHS 2CSR**, 12-75 μm : Chemically treated on the non-sealing side for improved adhesion of evaporated metal layers, printing inks or coatings.

Hostaphan® RHS is 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® RHS 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.