



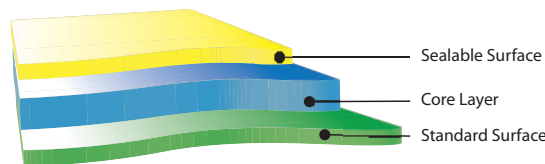
Hostaphan® RHST

Transparent, heat-sealable, temperature stable polyester film for cooking and roasting bags

Hostaphan® RHST 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. This antimony-free Hostaphan® RHST film is especially suited for usage in ovenable applications, offering the following advantages:

- No need for migration testing in simulants or food
- No antimony can be transferred to food, since no antimony is present
- No health risk for consumers
- Toxic emissions from energy recovery are prevented, a valuable contribution to the environment

Layer structure of Hostaphan® RHST



Typical properties

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	15-20 30	N/mm ²	270 230	250 230	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	15-20 30	%	125 135	125 130	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	15-30	N/mm ²	4400	4600	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)	15-30	N/mm ²	105	95	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	15 20 30	%	1.6 1.6 1.4	0.1 0.3 0.1	DIN 40634	150°C, 15 min.



Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
OPTICAL						
Haze	15-20 30	%	2 2.2		ASTM-D 1003-61 method A	Enlarged measurement angle
SURFACE						
Coefficient of friction (static)	15-30	-			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	15-30	mN/m (dyne/cm)	43		DIN 53364	Test inks
PHYSICAL/CHEMICAL						
Density	15-30	g/cm^3	1.39		ASTM-D 1505-68 method C	23°C
HEAT SEAL-/PEEL PARAMETERS						
Minimum sealing temperature	15-30	°C	130		-	-
Sealing strength	15-30	N/15 mm	2-3		-	Finseal @130°C, 4 bar, 0.5 sec, T-peel

MD = Machine direction, TD = Transverse direction

Delivery program Hostaphan® RHST

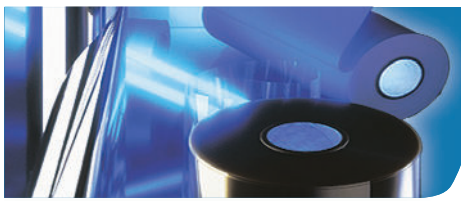
Thickness μm	Yield		Roll length <i>m</i>	Roll-diameter <i>mm</i>
	g/m^2	m^2/kg		
15	21	48	11 200	490
20	28	36	9 200	540
30	42	24	On request	On request

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

Hostaphan® RHST is generally suitable for use in microwave or conventional ovens under conditions up to 220° C for 120 minutes.

Safety precautions

For microwave ovens, the heating instructions should be such that the food will not be dangerously overheated, especially for fatty or sugary "dry" foods. Such foods can reach very high temperatures in microwave ovens, possibly even above the melting point of the film.



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For conventional ovens, it is quite important that the temperature regulation in the oven is intact and working correctly. It is even more important that the film does not come into direct contact with glowing heating elements or open flames (e.g. a grill element or in standard household ovens in the United States). Otherwise, the film might melt if overheated ($>250^{\circ}\text{C}$) or even start to burn (contact with heating element or flame).

Appropriate safety instructions should be passed on to consumers.

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.

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