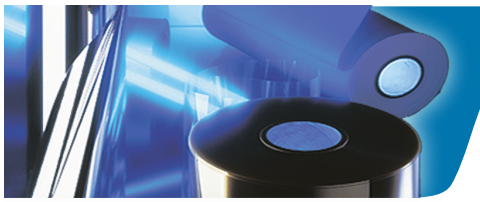


HOSTAPHAN®

Hostaphan® RBB

Transparent, temperature stable polyester film for cooking and roasting bags

Hostaphan® RBB is a biaxially oriented film made of polyethylene terephthalate (PET) with extraordinary thermal, mechanical and optical properties. This antimony-free Hostaphan® RBB 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
- Environmentally friendly, as no antimony is emitted during energy recovery

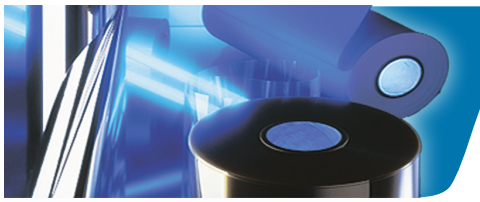
Hostaphan® RBB can easily be welded to form bags.

Typical properties

Property	*Thickness µm*	*Units*	*Value*		*Test Method*	*Test Conditions*
			MD	*TD*		
MECHANICAL						
Tensile strength	12	N/mm^2	260	260	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12	%	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	N/mm^2	4500	5000	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12	%	1.6	0.1	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	12	%	91		ASTM-D 1003-61 method A	-
Haze	12	%	2		ASTM-D 1003-61 method A	Enlarged measurement angle
SURFACE						
Gloss	12	-	200		DIN 67530	Measuring angle 20°
PHYSICAL/CHEMICAL						
Density	12	g/cm^3	1.4		ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

MITSUBISHI POLYESTER FILM GmbH
Kasteler Str. 45 • 65203 Wiesbaden/Deutschland • marketing@m-petfilm.de • www.m-petfilm.de



HOSTAPHAN®

Delivery program Hostaphan® RBB

Thickness	*Yield*		*Roll length*	*Roll-diameter*	*Roll length*	*Roll-diameter*
µm	*g/m²*	*m²/kg*	*m*	*mm*	*m*	*mm*
12	17	60	24 000	650	48 000	900

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

Hostaphan® RBB 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.

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° 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.

Edition 04/21

MITSUBISHI POLYESTER FILM GmbH
Kasteler Str. 45 • 65203 Wiesbaden/Deutschland • marketing@m-petfilm.de • www.m-petfilm.de