



## Hostaphan® WUHS

### White, heat sealable and UV-stabilized film

Hostaphan® WUHS is a white, UV-stabilized, 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. Furthermore it is characterized by a very high resistance against UV radiation as well as a low light transmission, especially in the UV range of 200 to 390 nm.

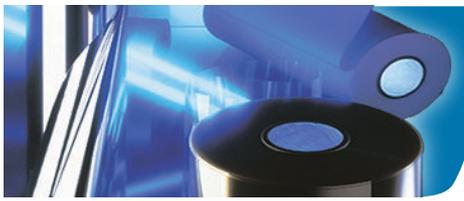
### Typical properties

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
<b>MECHANICAL</b>						
Tensile strength	25 50	N/mm <sup>2</sup>	150 180	205 230	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	25 50	%	155 160	85 95	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
<b>THERMAL</b>						
Shrinkage	25 50	%	1.1 1.1	0.1 1.0	DIN 40634	150°C, 15 min.
<b>OPTICAL</b>						
Transparency	25 50	%	37 28		ASTM-D 1003-61 method A	-
<b>PHYSICAL/CHEMICAL</b>						
Density	25, 50	g/cm <sup>3</sup>	1.46		ASTM-D 1505-68 method C	23°C
<b>HEAT SEAL / PEEL PARAMETERS</b>						
Sealing strength	25, 50	N/15mm	2-3		-	Finseal @ 130° C, 4 bar, 0.5 sec, T-peel
Seal temperature range	25, 50	°C	> 120		-	-

MD = Machine direction, TD = Transverse direction

### UV stability

For Hostaphan® WUHS 25 weathering tests were conducted. Weathering of Hostaphan® WUHS 25 was stopped after more than 10,000 h, with the film being still mechanically o.k. (elongation at break more than 5 %).



**Other changes to be considered:**

Hostaphan® WUHS is getting more matt during weathering and depending on climate conditions there is a thickness erosion over time (typical for wet UV weathering tests).

**Test conditions:**

Device: QUV/spray from Q-panel (UV fluorescence lamp)

Test cycle:

- a) 4 h UVA irradiation at 60 °C
- b) 5 min water spray while irradiated
- c) 4 h condensation at 50 °C
- d) back to a)

Irradiation intensity = 0.89 W/m<sup>2</sup>/nm at 340 nm.

All data applies for the film only. Any final product has to be tested separately.

**Delivery program Hostaphan® WUHS**

Thickness <i>µm</i>	Yield		Roll length <i>m</i>	Roll- diameter <i>mm</i>
	<i>g/m<sup>2</sup></i>	<i>m<sup>2</sup>/kg</i>		
25	37	27	On request	On request
50	73	14		

Core diameter: 152.4 mm (6")

Please note that when Hostaphan® WUHS is combined with other materials or articles, the performance of the final product depends on all components and the geometry. Rigorous qualification and safety testing of the final product is always necessary, as unexpected interactions could occur.

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.