



# Hostaphan<sup>®</sup> WO

## White opaque film

Hostaphan<sup>®</sup> WO is a white opaque film made of polyethylene terephthalate (PET) and is characterized by its very low transparency and high degree of whiteness. It is therefore particularly suitable as a versatile print medium, offering outstanding high mechanical strength and good dimensional stability.

### Typical properties

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD*	TD*		
<b>MECHANICAL</b>						
Tensile strength	50-125 175-190 250-300 350	N/mm <sup>2</sup>	150 150 150 130	190 180 170 140	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	50-300 350	%	150 150	90 120	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
F5-value (stress to obtain 5% elongation)	50 75-100 125-350	N/mm <sup>2</sup>	85 90 95	95 100 105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
<b>THERMAL</b>						
Shrinkage	50-250 300-350	%	1.0 1.0	1.0 0.5	DIN 40634	150°C, 15 min.
<b>OPTICAL</b>						
Transparency	50 75 100-350	%	20 13 9		ASTM-D 1003-61 method A	-
Yellowness Index	50-350	-	-9		ASTM-D 1925- 63T	Reflection mode
Whiteness (Berger)	50-350	-	110		ASTM-E 308	Reflection mode
CIE Lab L*	50-350	-	96		ISO 7724	Reflection mode
<b>SURFACE</b>						
Gloss	50-350	-	45		DIN 67530	Measuring angle 60°



Property	Thickness $\mu\text{m}$	Units	Value		Test Method	Test Conditions
			MD*	TD*		
Roughness Ra value	50-350	nm	50		DIN 4768	Cut off 0,25 mm
<b>PHYSICAL/CHEMICAL</b>						
Density	50-125 175-350	$\text{g}/\text{cm}^3$	1.4 1.5		ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

#### Applications:

- Labels
- Pre-paid cards
- Imaging, eg. Ink jet film
- High-quality alternative to paper, e.g. for blister packaging

#### Product advantages:

- Suitable for all normal printing processes (offset, flexographic, rotogravure and book printing).  
Ink systems and manufacturers are available on request.
- Brilliant white surface for precise print reproduction
- Outstanding heat resistance

#### Nomenclature:

Hostaphan<sup>®</sup> WO is available chemically treated on both sides to assist adhesion to water or solvent based printing and coating systems.

**Plain:** Hostaphan<sup>®</sup> WO D027

**Treated on both sides:** Hostaphan<sup>®</sup> WO D027 B (aqueous inks) up to 250  $\mu\text{m}$

Hostaphan<sup>®</sup> WO D054 B (solvent based inks) up to 250  $\mu\text{m}$


**Delivery program Hostaphan® WO**

Thickness  $\mu\text{m}$	Thickness range  $\mu\text{m}$	Yield		Roll length	Roll diameter	Roll length	Roll diameter
		$\text{g}/\text{m}^2$	$\text{m}^2/\text{kg}$	m	mm	m	mm
50	$\pm 2.5$	70	14.0	3 200	490	6 400	670
75	$\pm 3.5$	105	9.6	2 000	480	4 000	650
100	$\pm 5.0$	140	7.2	1 600	490	3 200	670
125	$\pm 6.5$	175	5.7	1 280	490	2 560	670
175	$\pm 9.0$	263	3.8	800	465	1 600	630
190	$\pm 10.0$	285	3.5	800	480	1 600	655
250	$\pm 12.5$	375	2.7	600	480	1 200	650
300	$\pm 15.0$	450	2.2	480	470	960	640
350	$\pm 17.0$	525	1.9	440	485	880	660

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