



## HOSTAPHAN™ WO

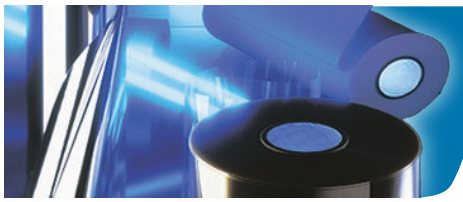
### White opaque polyester film

HOSTAPHAN™ 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<br>µm                 | Units             | Value                    |                          | Test Method                                 | Test Conditions                            |
|---|---------------------------------|-------------------|--------------------------|--------------------------|---|--|
|   |                                 |                   | MD                       | TD                       |   |  |
| <b>MECHANICAL</b>                         |                                 |                   |                          |                          |   |  |
| Tensile strength                          | 50-125<br>175-190<br>250<br>350 | N/mm <sup>2</sup> | 170<br>150<br>150<br>140 | 190<br>180<br>170<br>140 | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 100 %/min.;<br>23 °C, 50 % r.h. |
| Elongation at break                       | 50-250<br>350                   | %                 | 150<br>150               | 110<br>120               | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 100 %/min.;<br>23 °C, 50 % r.h. |
| F5-value (stress to obtain 5% elongation) | 50<br>75-100<br>125-350         | N/mm <sup>2</sup> | 85<br>90<br>95           | 95<br>100<br>105         | ISO 527-1 and<br>ISO 527-3<br>Sample type 2 | Test speed 100 %/min.;<br>23 °C, 50 % r.h. |
| <b>THERMAL</b>                            |                                 |                   |                          |                          |   |  |
| Shrinkage                                 | 50-250<br>350                   | %                 | 1.0<br>0.8               | 1.0<br>0.8               | DIN 40634                                   | 150°C, 15 min.                             |
| <b>OPTICAL</b>                            |                                 |                   |                          |                          |   |  |
| Transparency                              | 50<br>75<br>100-350             | %                 | 20<br>13<br>9            |                          | ASTM-D 1003-61<br>method A                  | -  |
| Yellowness Index                          | 50-350                          | -                 | -9                       |                          | ASTM E313-96/<br>D65                        |  |
| Whiteness (Berger)                        | 50-350                          | -                 | 110                      |                          | ASTM-E 308                                  | Reflection mode                            |
| CIE Lab L*                                | 50-350                          | -                 | 93                       |                          | ISO 7724                                    | Reflection mode                            |
| <b>SURFACE</b>                            |                                 |                   |                          |                          |   |  |
| Gloss                                     | 50-350                          | -                 | 45                       |                          | DIN 67530                                   | Measuring angle 60°                        |
| Roughness Ra value                        | 50-350                          | nm                | 50                       |                          | DIN 4768                                    | Cut off 0.25 mm                            |
| <b>PHYSICAL/CHEMICAL</b>                  |                                 |                   |                          |                          |   |  |
| Density                                   | 50-125<br>175-350               | g/cm <sup>3</sup> | 1.4<br>1.5               |                          | ASTM-D 1505-68<br>method C                  | 23°C                                       |

MD = Machine direction, TD = Transverse direction



# HOSTAPHAN™

## Applications:

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

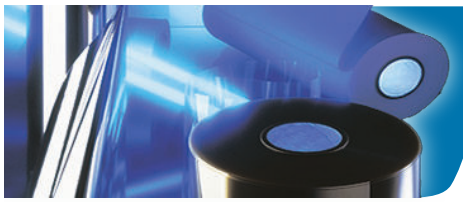
## Product advantages:

- Suitable for all normal printing processes (offset, flexographic, rotogravure and book printing).
- Brilliant white surface for precise print reproduction
- Outstanding heat resistance

## Nomenclature:

HOSTAPHAN™ WO is available chemically treated on both sides to assist adhesion to water or solvent based printing and coating systems.

|                               |  |
|-------------------------------|--|
| <b>Plain:</b>                 | HOSTAPHAN™ WO D027                             |
| <b>Treated on both sides:</b> | HOSTAPHAN™ WO D027B (aqueous inks)             |
|                               | HOSTAPHAN™ WO CSR / D054B (solvent based inks) |



## Delivery program HOSTAPHAN™ WO

| Thickness<br>$\mu\text{m}$ | Yield                 |                        | Roll length<br><i>m</i> | Roll-<br>diameter<br><i>mm</i> | Roll length<br><i>m</i> | Roll-<br>diameter<br><i>mm</i> |
|----------------------------|-----------------------|------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|
|                            | $\text{g}/\text{m}^2$ | $\text{m}^2/\text{kg}$ |                         |                                |                         |                                |
| 50                         | 71                    | 14.2                   | 3 200                   | 490                            | 6 400                   | 670                            |
| 75                         | 107                   | 9.4                    | 2 000                   | 480                            | 4 000                   | 650                            |
| 100                        | 143                   | 7.0                    | 1 600                   | 490                            | 3 200                   | 670                            |
| 125                        | 179                   | 5.6                    | 1 280                   | 490                            | 2 560                   | 670                            |
| 175                        | 261                   | 3.8                    | 800                     | 465                            | 1 600                   | 630                            |
| 190                        | 285                   | 3.5                    | 800                     | 480                            | 1 600                   | 655                            |
| 250                        | 373                   | 2.7                    | 600                     | 480                            | 1 200                   | 650                            |
| 350                        | 539                   | 1.9                    | 440                     | 485                            | 880                     | 660                            |

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

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.