



Hostaphan® MNK

Matte polyester film

Hostaphan® MNK is a co-extruded, biaxially oriented matte film made of polyethylene terephthalate (PET) with smooth matte surfaces. The matte finish is achieved by addition of an inorganic filler to the base polymer.

Typical properties

| Property | Thickness μm | Units | Value | | Test Method | Test Conditions |
|---|----------------------------|-------------------|------------|------------|---|--|
| | | | MD | TD | | |
| MECHANICAL | | | | | | |
| Tensile strength | 15 19-36 | N/mm ² | 160 190 | 250 250 | ISO 527-1 and ISO 527-3 Sample type 2 | Test speed 100 %/min.; 23 °C, 50 % r.h. |
| Elongation at break | 15-36 | % | 140 | 100 | ISO 527-1 and ISO 527-3 Sample type 2 | Test speed 100 %/min.; 23 °C, 50 % r.h. |
| Young's Modulus | 15-36 | N/mm ² | 4000 | 5100 | 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) | 15-36 | N/mm ² | 100 | 100 | ISO 527-1 and ISO 527-3 Sample type 2 | Test speed 100 %/min.; 23 °C, 50 % r.h. |
| THERMAL | | | | | | |
| Shrinkage | 15-23 36 | % | 1.3 1.1 | 0.1 0.1 | DIN 40634 | 150°C, 15 min. |
| OPTICAL | | | | | | |
| Transparency | 15-23 36 | % | 87 83 | | ASTM-D 1003-61 method A | - |
| SURFACE | | | | | | |
| Coefficient of friction (static) | 15-36 | - | 0.4 | | DIN53375 or ASTM-D 1894 | - |
| Gloss | 15-23 36 | - | 45 35 | | DIN 67530 | Measuring angle 60° |
| Roughness Ra value | 15-36 | nm | 270 | | DIN 4768 | Cut off 0.25 mm |
| PHYSICAL/CHEMICAL | | | | | | |
| Density | 15-36 | g/cm ³ | 1.4 | | ASTM-D 1505-68 method C | 23°C |

MD = Machine direction, TD = Transverse direction



Applications:

- Backing film for hot stamping films
- Backing film for metallizing
- Releasefilm for production of matte surfaces on films made of thermosetting resin
- Backing film for laminates with matte surfaces

Delivery program Hostaphan® MNK

| Thickness μm | Yield | | Roll length | Roll-diameter | Roll length | Roll-diameter |
|----------------------------|-----------------------|------------------------|-------------|---------------|-------------|---------------|
| | g/m^2 | m^2/kg | m | mm | m | mm |
| 15 | 21 | 48 | 8 400 | 440 | 16 800 | 600 |
| 19 | 27 | 38 | 9 200 | 500 | 18 400 | 700 |
| 23 | 32 | 31 | 9 600 | 550 | 19 200 | 800 |
| 36 | 50 | 20 | 4 000 | 470 | 8 000 | 650 |

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

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.