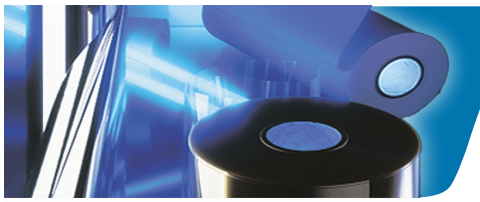

HOSTAPHAN®

Preliminary data sheet

# Hostaphan® GUV CT01B

## Glass-clear UV resistant and UV blocking film

Hostaphan® GUV CT01B is a glass-clear film made of polyethylene terephthalate (PET) for UV absorption and outdoor applications. It is characterized by its superior absorption of and very high resistance against UV radiation. Good bonding strength is achievable with coatings and metal layers. Further excellent properties are its high mechanical strength, dimension stability and very smooth, glossy surface.

Hostaphan® GUV CT01B is two side chemically treated for improved slip as well as for improvement of the adhesion of coatings and printing inks.

## Typical properties

| *Property* | *Thickness µm* | *Units* | *Value* | | *Test Method* | *Test Conditions* |
|---|---|---|---|---|---|---|
| | | | *MD* | *TD* | | |
| MECHANICAL | | | | | | |
| Tensile strength | 50, 75 | $N/mm^2$ | 180 | 230 | ISO 527-1 and ISO 527-3 Sample type 2 | Test speed 100 %/min.; 23 °C, 50 % r.h. |
| Elongation at break | 50, 75 | % | 200 | 140 | ISO 527-1 and ISO 527-3 Sample type 2 | Test speed 100 %/min.; 23 °C, 50 % r.h. |
| THERMAL | | | | | | |
| Shrinkage | 50, 75 | % | 1.2 | 0.2 | DIN 40634 | 150°C, 15 min. |
| OPTICAL | | | | | | |
| Transparency | 50, 75 | % | ≤ 15<br>70<br>90<br>90 | | ASTM-D 1003-61 method A | 380 nm, UV range<br>400 nm, optical range<br>500 nm, optical range<br>1 000 nm, IR range |
| Haze | 50, 75 | % | 1.0 | | ASTM-D 1003-61 method A | Enlarged measurement angle |
| Yellowness Index | 50<br>75 | - | 0.9<br>1.2 | | ASTM-E313-96/ D65 | In transmission |
| PHYSICAL/CHEMICAL | | | | | | |
| Density | 50, 75 | $g/cm^3$ | 1.4 | | ASTM-D 1505-68 method C | 23°C |

MD = Machine direction, TD = Transverse direction

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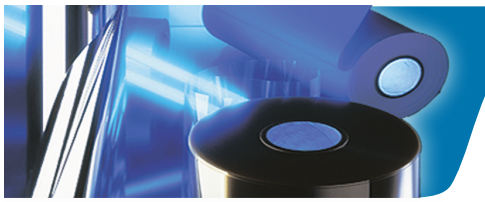
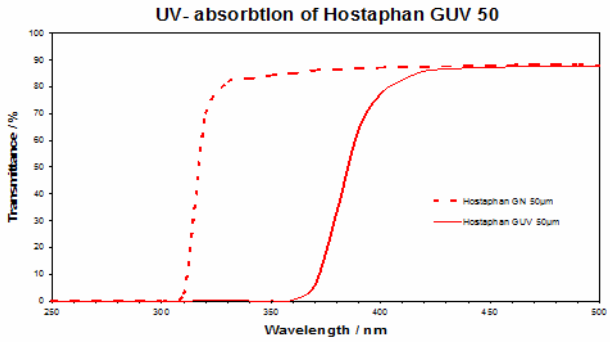


# HOSTAPHAN®

## Applications:

- UV blocking
- Outdoor use
- Protection against UV radiation
- Coating
- Printing e.g. for surface layers, packaging materials, reinforcement.

Hostaphan® GUV CT01B can easily be coated or printed with functional layers.
The film is slip coated for high speed processing.




## Delivery program Hostaphan® GUV CT01B

| *Thickness* | *Yield* | | *Roll length* | *Roll-diameter* |
|---|---|---|---|---|
| *µm* | *g/m²* | *m²/kg* | *m* | *mm* |
| 50 | 70 | 14 | On request | On request |
| 75 | 105 | 9.5 | " | " |

Core diameter: 152.4 mm (6").

Rolls are supplied with knurls (15 mm each side).

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.

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