

## Hostaphan® FACE FS1

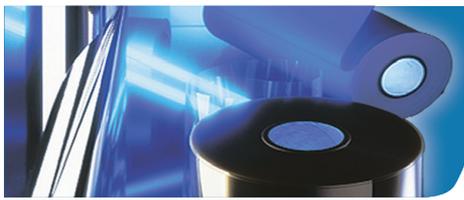
### Glass clear polyester film for face shields

Hostaphan® FACE FS1 is a highly transparent PET- film that is chemically primed on one or both sides to provide the slip necessary to handle and wind the film. Hostaphan® FACE FS1 is used in face shield applications and fulfills the optical requirements set forth in the standard for Personal Eye Protection EN 167:2001, § 4.2.2.

The film is **not intended** for use in the manufacture of impact resistant or industrial chemical face shields or goggles, except as an adjunct to the primary barrier, as it does not confer significant impact or corrosion resistance.

### Typical properties

Property	Thickness $\mu\text{m}$	Units	Value		Test Method	Test Conditions
			MD	TD		
<b>MECHANICAL</b>						
Tensile strength	96-250	N/mm <sup>2</sup>	190	220	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	96-250	%	195	145	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	96, 125 175, 250	N/mm <sup>2</sup>	4000 3900	4800 4500	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)	96 125-250	N/mm <sup>2</sup>	105 110	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	96-250	%	1.0	0.1	DIN 40634	150°C, 15 min.
<b>OPTICAL</b>						
Transparency	96-250	%	91		ASTM-D 1003-61 method A	-
Haze	96-250	%	1.0		ASTM-D 1003-61 method A	Enlarged measurement angle
Light diffusion	96-250	cd/m <sup>2</sup> x lux	< 0.5		EN 167:2001, § 4.2.2	-



Property	Thickness $\mu\text{m}$	Units	Value		Test Method	Test Conditions
			MD	TD		
<b>SURFACE</b>						
Coefficient of friction (static)	96-250	-			DIN53375 or ASTM-D 1894	-
Treated surface/ Treated surface				0.3		
Treated surface/ Untreated surface				0.35		
Untreated surface/ Untreated surface				blocks		
Gloss	96-250	-		220	DIN 67530	Measuring angle 20°
<b>PHYSICAL/CHEMICAL</b>						
Density	96-250	$\text{g/cm}^3$		1.4	ASTM-D 1505-68 method C	23°C

MD = Machine direction, TD = Transverse direction

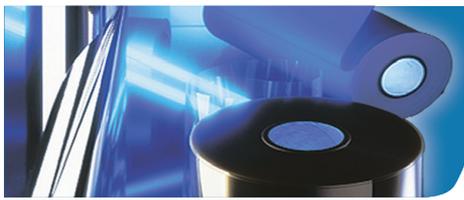
### Product advantages:

- high light transmission
- distortion free view w/o die lines
- good processability
- die and laser cuttable
- cleanable with soft detergents or household glass cleaners

### Delivery program Hostaphan® FACE FS1

Thickness $\mu\text{m}$	Yield		Roll length <i>m</i>	Roll-diameter <i>mm</i>	Roll length <i>m</i>	Roll-diameter <i>mm</i>
	$\text{g/m}^2$	$\text{m}^2/\text{kg}$				
96	134	7.4	1 600	480	3 200	655
125	175	5.7	1 280	485	2 560	670
175	245	4.1	800	475	1 600	630
250	350	2.9	600	475	1 200	650

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



# HOSTAPHAN®

## Available grades:

Hostaphan® FACE FS10: one side treated, treated side wound out

Hostaphan® FACE FS1I: one side treated, treated side wound in

Hostaphan® FACE FS1B: two side treated

## General storage conditions:

Hostaphan® polyester film is largely unaffected by climatic influences. We recommend that the film is kept in the original packaging until used. A dry dust-free storage room with an ambient temperature below 30°C is recommended. Avoid storing the film outdoors for any significant period of time where it will be exposed to harmful influences such as humidity, rain or direct sunlight.

## Specific handling instruction for Hostaphan® FACE FS1:

The slip coating on Hostaphan® FACE FS1 is sensitive to moisture. If this coating gets wet, then the film rolls will block and will not be able to be unwound. The rolls are wrapped in a protective tubular polyethylene outer wrap film to prevent moisture damage, and care must be taken to ensure that this wrap is dry before it is removed and no water gets into contact with the roll faces. Rolls should be transferred, in the transport packaging, to the processing area or a room with a similar climate at least 24 hours before processing.

The properties shown in this technical data sheet only apply to the film itself. We cannot guarantee the properties of an intermediate or final product made from or using the film. Instead, the intermediate or final product must be subjected to standard industrial testing.

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.