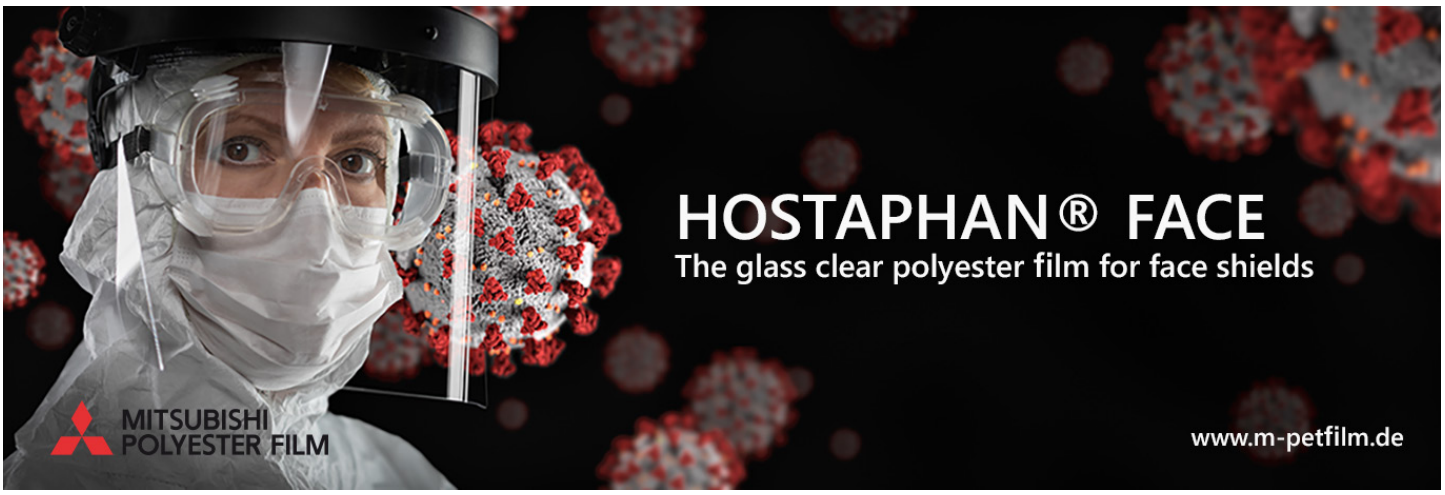
MITSUBISHI POLYESTER FILM
A Group Company of MITSUBISHI CHEMICAL



As a global leader and one of the largest suppliers of biaxially oriented polyester film (polyethylenterephthalate/PET), the Mitsubishi Polyester Film Group is both, a supplier of choice for a wide range of innovative high-quality customized HOSTAPHAN® PET films as well as for customized solutions. In joint research activities we develop individual solutions together with our customers.

The application of HOSTAPHAN® for face shields is just one example to show our strength in developing new solutions within short time.

HOSTAPHAN® FACE is a glass clear polyester film (boPET-Film) which is used in face shield applications. The optical properties were measured according to the standard for Personal Eye Protection EN 167:2001. The film is available from 96 to 250 my thickness.
For details please see our data sheet.

General advantages of HOSTAPHAN® polyester films are their

- Very high dimensional stability over a broad temperature range (-60 to 120°C usage temperature)
- Mechanical robustness
- Chemical resistance
- High stiffness
- Good processability, the film is die and laser cuttable

Specific advantages of HOSTAPHAN® FACE films are:

- High light transmission and clarity
- Distortion free view without die lines or orange peel surface
- High wearing comfort through lightweight
- Fatigue free working over long times
- Cleanable with soft detergents or household glass cleaners
- Disinfectable
- Food approved according to the current version of EU Regulation 1935/2004 and 10/2011 as well as FDA regulation 21 CFR 177.1630
- Environmental friendliness due to
  - Economical material usage
  - No plasticizer usage
  - No degassing substances
  - Long term storage stability
  - Good recyclability

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Overview about properties of different materials

		HOSTAPHAN® FACE FS1					
Properties		**bo-PET**	**A-PET**	**G-PET**	**PMMA**	**Polycarbo-nat**	**PVC**
Thickness	mm	0,1-0,25	0,3	0,3	0,3	0,3	0,3
Weight of visor film (A3-size)	g	12-44	50	50	43	45	53
Light transmission		very high	very high	very high	very high	very high	high
Light diffusion acc. to EN 166/ 167 (typical values)	cd/ m^2 x lx	< 0,5	> 0,5	> 0,5	< 0,5	> 0,5	> 0,5
Scratch resistance		medium	poor	poor	poor	poor	poor
Disinfectable		yes, many times	yes	yes	yes, no Iso-propanol	yes	yes
Chemical resistance		very good	poor	medium	good	good	good
Die cuttable		yes	yes	yes	yes	yes	yes
Stiffness		very high	low	medium	high	high	low
Recyclability		yes	yes	yes	yes	yes	no
Odour		neutral	neutral	neutral	neutral	neutral	characteris-tic smell
UV- transmission, protects against...		medium UV-B and UV- C	medium UV-B and UV- C	medium UV-B and UV- C	high part of UV-C	low UV-A, UV-B, UV-C	high part of UV-C

This overview is an informal comparison only for films without modifications or surface treatments - deviations are possible

For more technical information please ask for our technical data sheet.

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