

**EUROPLEX®**  
Film

## EUROPLEX® HC Film OF070

### Product

EUROPLEX® Film HC OF070 is a weather resistant, transparent, co-extruded PMMA and PVDF film for high quality lamination systems.

This film displays excellent performance in long term outdoor weathering without showing any color change or yellowing.

EUROPLEX® HC Film OF070 provides high protection for other polymeric substrates against degradation caused by UV radiation.

Thanks to its PVDF top layer, the film displays a very good chemical resistance, anti-soiling and easy-to-clean effect.

### Application

EUROPLEX® HC Film OF070 can be laminated as a protective top layer onto polymeric films and sheets based on PVC, ABS, PC and ASA.

Decorative films protected with this film on top can be laminated on different substrates, such as PVC profiles.

In labels and graphic arts, EUROPLEX® HC Film OF070 can be used as a clear overlay in laminate systems for high UV and weathering protection. This also ensures chemical resistance, anti-soiling and easy-to-clean effects are achieved.

### Processing

EUROPLEX® HC Film OF070 is only suitable for back printing, on the PMMA side, by a wide variety of printing technologies.

EUROPLEX® HC Film OF070 can be laminated onto polymeric substrates such as films and extruded sheets based on PVC, PC, ABS, PMMA and ASA by in-line or roll-to-roll heat lamination.

High quality laminates can also be achieved using EUROPLEX® HC Film OF070 and other polymeric substrates such as PET, PC, PP, PE and PVC, with the help of pressure sensitive adhesives (PSA) or solvent based adhesives.

The film can be cut-to-size or die cut.

### Sales range

EUROPLEX® HC Film OF070 is delivered in standard rolls of 53 µm thickness, 48 µm PMMA layer and 5 µm PVDF top layer and 1450 mm width.

Custom-made rolls (up to 2700 mm in width) can be produced under prior commercial agreement.

| Technical data                              |                                      |                   |                            |
|---------------------------------------------|--------------------------------------|-------------------|----------------------------|
| Properties                                  | Test method                          | Unit              | Value                      |
| <b>Optical</b>                              |                                      |                   |                            |
| Luminous transmittance (D65/10°)            | DIN EN ISO 11664                     | %                 | 93                         |
| UV transmittance (280 – 380 nm)             | DIN EN 410:2011                      | %                 | ≤ 1.5                      |
| Haze                                        | ASTM D1003                           | %                 | 8                          |
| <b>Mechanical</b>                           |                                      |                   |                            |
| Tensile yield stress ( $\sigma_y$ )         | DIN EN ISO 527-3                     | MPa               | 38                         |
| Yield strain ( $\epsilon_y$ )               | DIN EN ISO 527-3                     | %                 | 6                          |
| Nominal strain at break ( $\epsilon_{tB}$ ) | DIN EN ISO 527-3                     | %                 | ≥ 50                       |
| <b>Miscellaneous</b>                        |                                      |                   |                            |
| Accelerated weathering resistance           | DIN EN ISO 4892-2, method A, cycle 1 | h                 | 10000<br>No visible change |
| Density                                     | DIN EN ISO 1183                      | g/cm <sup>3</sup> | 1.2                        |
| Surface tension                             | DIN ISO 8296                         | mN/m              | 26                         |

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® = registered trademark

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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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