PLASTICS
PROTECTIVE FILMS
OPTIMUM SURFACE PROTECTION. THROUGHOUT FABRICATION, PROCESSING AND OTHER ASSOCIATED OPERATIONS.
During production, processing and other associated operations, plastic surfaces are often put under stress and can easily become scratched or damaged. Therefore high-performance surface protection is required.

The POLIFILM product range offers comprehensive protection solutions, optimally tailored to the needs of your plastic surfaces and processing requirements.

Whichever plastic surface you need to protect, whether solid or multiwall polycarbonate sheet, smooth or structured acrylic surfaces, whether expanded, foamed or solid PVC sheets; POLIFILM provides you with the optimum solutions for superior protection of your product. Our specially developed protective film designs withstand the rigorous fabrication processes such as sawing, drilling, cutting, routing, bending and thermoforming; whilst ensuring the quality expectations of your products.

Choose between adhesive-coated and uncoated co-extruded film solutions, different film thicknesses, colours, adhesion levels and other optimised performance features.

Our technical teams will work in close co-operation with you to develop your ideal solution.

**CO-EXTRUDED PROTECTIVE FILMS**

The self-adhesive polyethylene cast extruded films cover a wide range of plastic surfaces. These films are precisely engineered consisting of several layers with very specific properties. Such films are extruded in a single operation which combine an extrudeable adhesive creating a high-performance protection film. The adhesive actually forms a layer in the film itself. These film types are 100% residue-free and fully recyclable. As production is in one single process these films are considered environmentally friendly as they use less resources in production. Quality assured raw materials ensure extremely low gel levels and high clarity with excellent resistance to moisture.

**ADHESIVE-COATED PROTECTIVE FILMS**

The bespoke film formulations and adhesive systems, based on acrylic or natural rubber, are particularly proven in the protection of PC and structured PMMA surfaces, guaranteeing high strength and dependable adhesion throughout the entire process. They ensure reliable peeling without tearing or the risk of leaving adhesive residues behind. Water based adhesives are commonly used negating the use of solvents, whilst each solution provides our customers with the benefit of film peeling to enable visual inspection with secondary application guaranteed. These films are fully recyclable.

**HIGHLY ENGINEERED SOLUTIONS FOR THERMOFORMING**

POLIFILM has developed special co-extruded film solutions for thermoforming a variety of plastic sheets. These high-quality films demonstrate maximum flexibility and excellent elongation properties, whilst guaranteeing a correspondingly high level of adhesion both before and during thermoforming. After thermoforming the adhesive properties are reduced to a lower level for easy removal especially around intricate shapes. This guarantees optimal protection combined with very simple and efficient removal of the film.
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AT A GLANCE
PLASTICS APPLICATION

COEX-CAST PROTECTION FILMS
On request of customers the films can be supplied in any colour and with a UV resistance up to 6 months.

<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>ADHESIVE STRENGTH</th>
<th>ADEHESIVE THICKNESS</th>
<th>COLOUR</th>
<th>UV RESISTANCE</th>
<th>THERMOFORMING</th>
<th>SURFACE</th>
</tr>
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<tbody>
<tr>
<td>PFC 161</td>
<td>Low</td>
<td>20 - 50</td>
<td>Transparent</td>
<td>No</td>
<td>✓</td>
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<tr>
<td>PFC 167</td>
<td>Medium – High</td>
<td>100 – 1000</td>
<td>Transparent</td>
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<tr>
<td>PFC 122</td>
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<tr>
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<tr>
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</tbody>
</table>

FILM THICKNESS (µm) COLOUR UV RESISTANCE  THERMOFORMING PC

ADHESIVE STRENGTH* FILM THICKNESS (µm) COLOUR UV RESISTANCE

PRODUCT TYPE ADHESIVE TYPE ADHESIVE STRENGTH FILM THICKNESS (µm) COLOUR UV RESISTANCE PC

POLIFILM PROTECTION

ADHESIVE STRENGTH FILM THICKNESS (µm) COLOUR UV RESISTANCE

PRODUCT TYPE ADHESIVE TYPE ADHESIVE STRENGTH FILM THICKNESS (µm) COLOUR UV RESISTANCE PC

POLIFILM PROTECTION

CHARACTERISTICS OF THE FILM

PRODUCT TYPE ADHESIVE TYPE ADEHESIVE THICKNESS | COLOUR | UV RESISTANCE | THERMOFORMING | SURFACE |

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POLIFILM PROTECTION

PRINTING TECHNOLOGY.
POLIFILM extends their service to you! We are able to provide all protective films with your individual design; your brand, your logo, your processing instructions; you decide! By using state-of-the-art printing technologies, we guarantee you a high-quality print image at all times leaving our customers with an optimal presentation of their product.

POLIFILM can design a film utilising various printing technologies, from Top Printed with specific release coats, TRAP Printing or Over Laminated Printing. Each solution can print up to 3 colours whilst enabling a variety of characteristics to be built in to the finished product, for example low-co-efficient of friction, high abrasion resistance, UV resistance without leading, reduced risk of Ghost images to name a few.

POLIFILM PROTECTION
For over 40 years we have been providing sophisticated, effective protection that ensures your surfaces are fully protected throughout production processing, manufacturing and other associated operations. As a process partner and specialist in co-extrusion, adhesive development and coating, we are in a unique position to develop film solutions to meet your exacting requirements offering total protection of the high quality products you produce.

Surface Protection solutions where you need them, when you need them, with consistently reliable service and excellent quality standards: that is our customer promise. As part of the family run POLIFILM Group, one of the leading manufacturers of polyethylene film solutions, we have a global network of production sites, sales offices, service and logistics centres and trusted distribution partners. We can therefore combine rapid response at a local level, with the flexibility of a global player backed by a reliable family business.