



# PLASTICS PROTECTIVE FILMS

OPTIMUM SURFACE PROTECTION. THROUGHOUT FABRICATION,  
PROCESSING AND OTHER ASSOCIATED OPERATIONS.

EXCELLENCE IN FILMS

# POLIFILM PROTECTION FILMS

OPTIMUM SURFACE PROTECTION.

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.

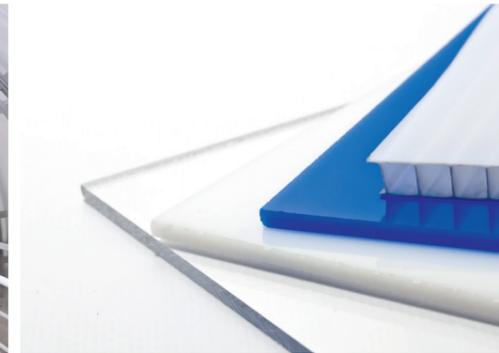
The POLIFILM product range offers comprehensive protection solutions, optimally tailored to the needs of your plastic surfaces and processing requirements.

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 extrudable 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.

CHARACTERISTICS OF THE FILM						SURFACE						
PRODUCT TYPE	ADHESIVE STRENGTH*	FILM THICKNESS (µm)	COLOUR	UV RESISTANCE**	THERMOFORMING	PC SOLID	PC MULTIWALL	PMMA SMOOTH & GLOSSY	PMMA STRUCTURED & MATT	PVC FOAMED	PVC SOLID	PS & HIPS
PFC 105	Low	20–50	Transparent	No	✓		•	•				
PFC 107	Low – Medium	30–100	Transparent	No	✓	•		•				
PFC 122	Medium – High	40–80	Transparent	No	✓			•				•
PFC 123	High	40–70	Transparent	No	✓			•				
PFC 126	Low – High	40–70	Transparent	No	✓			•				
PFC 127	Low – Medium	50–70	Transparent	No	✓	•		•				
PFC 129	High	50–100	Transparent	No	✓			•	•			
PFC 130	Low – Medium	40–70	Transparent	No	✓			•	•			
PFC 145	Medium – High	30–100	Transparent	No	X						•	•
PFC 150	Low – Medium	30–50	Transparent	No	X				•	•		
PFC 160	Low – Medium	30–75	Transparent	No	X				•	•		

\* depending on the surface | \*\* UV-resistance according to Western European climate / observe the remarks in the data sheet

### ADHESIVE COATED PROTECTION FILMS

Films can be supplied printed or non printed up to 2.2 m width.

CHARACTERISTICS OF THE FILM						SURFACE		
PRODUCT TYPE	ADHESIVE TYPE	ADHESIVE STRENGTH	FILM THICKNESS (µm)	COLOUR	UV RESISTANCE***	PC SOLID	PMMA SMOOTH & GLOSSY	PMMA STRUCTURED & MATT
PF61 EW	Acrylic water-based	Low*	50	White	No	•	•	
PF11 BW	Acrylic water-based	Low*	70	Transparent	No	•	•	
PF21 BW	Acrylic water-based	Low*	70	Blue Opaque	No	•	•	
PF61 BW	Acrylic water-based	Low*	70	White	No	•	•	
PF32/3 W PV2	Acrylic water-based	Medium – High*	200	Transparent	6 Month	•	•	
PF13 RC	Natural Rubber	Medium – High**	50	Transparent	No			•
PF14 RC/A	Natural Rubber	High**	55	Transparent	No			•
PF65 W PV2	Acrylic water-based	Very High**	70	White	No			•

\* Peel Adhesion to PMMA | \*\* Peel Adhesion to Stainless Steel | \*\*\* UV-resistance according to Western European climate / observe the remarks in the data sheet



### 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 fading, reduced risk of Ghost images to name a few.

# POLIFILM PROTECTION. YOUR PARTNER FOR TEMPORARY 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.



## PROTECTION WITHOUT LIMITS. JUST A FEW CLICKS AWAY.



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.

### PRODUCTION LOCATIONS

Germany  
France  
Italy  
Israel

Brazil  
China  
USA

### DISTRIBUTION LOCATIONS

Germany  
France  
United Kingdom  
Italy  
Spain  
Israel

China  
Mexico  
South Africa  
Turkey  
USA  
Australia

### GLOBAL DISTRIBUTION PARTNER NETWORK

More than  
20 distribution partners  
worldwide