



DONKSESTENWEG 13  
B-2930 BRASSCHAAT  
BELGIUM



**OPTICAL LAMINATING FILMS**

**NEW PRODUCT INTRODUCTION**  
**PF-6000 EXTREME SERIES**

**PRODUCT DATA**

## PF-6100

Aliphatic Polyurethane  
Laminating Adhesive Film

POLYFLEX **PF-6100** is a **HIGH PERFORMANCE, NEW GENERATION** polyurethane Laminating Adhesive specifically designed for glass and glass-Plastic optical laminate applications.

Polyflex PF-6100 is one of a full range of Optical Laminating Interlayers offered to the Glass industry for High Optical quality transparencies.

Polyflex PF-6100 is specifically designed for high performance applications requiring extreme impact resistance at both high and low temperature ranges

It contains a unique anti-UV additive; exhibits high hardness, flexibility, excellent mechanical and hydrolysis resistance.

### PF-6100 Performance Features

- Excellent adhesion to multiple substrates
- Excellent Low and High Temperature Stability
- UV stable (Improved UV protection)
- Contains Adhesion promoter
- Low Laminating Temperature

### PF-6100 APPLICATIONS

- Security Glazing for Buildings (Government, Military)
- Vehicle armoring (Military)
- Military Electronics applications
- Aerospace

### Product Configuration

PF-6100 is available in Roll Form, in thickness from .015 inch (0.38mm) to 0.80 inch (2.0mm), and widths from 1000 mm to 1800 mm.

Standard thicknesses are : 0.38mm ; 0.76mm and 1.25mm

Standard Widths are 1000 mm; 1270mm; and 1520mm

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<b>PHYSICAL PROPERTIES</b>	<b>Test Method</b>	<b>Typical Value</b>
<b>Durometer (Shore A)</b>	ASTM D2240	98A / 68D
<b>Specific Gravity</b>	ASTM D792	1.10
<b>100% Modulus (psi)</b>	ASTM D412	2460
<b>200% Modulus (psi)</b>	ASTM D412	3800
<b>300% Modulus (psi)</b>	ASTM D412	
<b>Ultimate Tensile Strength (psi)</b>	ASTM D412	5840
<b>Ultimate Elongation %</b>	ASTM D412	294
<b>Tear Resistance (pli)</b>	ASTM D624	
<b>TMA Peak °C</b>		
<b>TMA Range , °C</b>		
<b>Tg</b>	ASTM D3418	- 60 °C
<b>Haze</b>	ASTM D1003	< 0.5 %
<b>Light Transmission %</b>	ASTM D1003	85 - 95
<b>Refractive Index</b>	ASTM D542	1.496
<b>Yellowness Index</b>	ASTM D1925	< 1.0

### **TYPICAL LAMINATING CONDITIONS**

AUTOCLAVE TEMPERATURES 98 -130 °C

AUTOCLAVE PRESSURE 10-12 Bar.

DWELL TIME AT TEMPERATURE: 60 - 90 MINUTES