



# Graphic Film

## Polycarbonate Graphic Film

### Description

Designed to meet the diverse requirements of screen printing, Polycarbonate Graphic film is excellent for printing where durability and excellent clarity is needed.

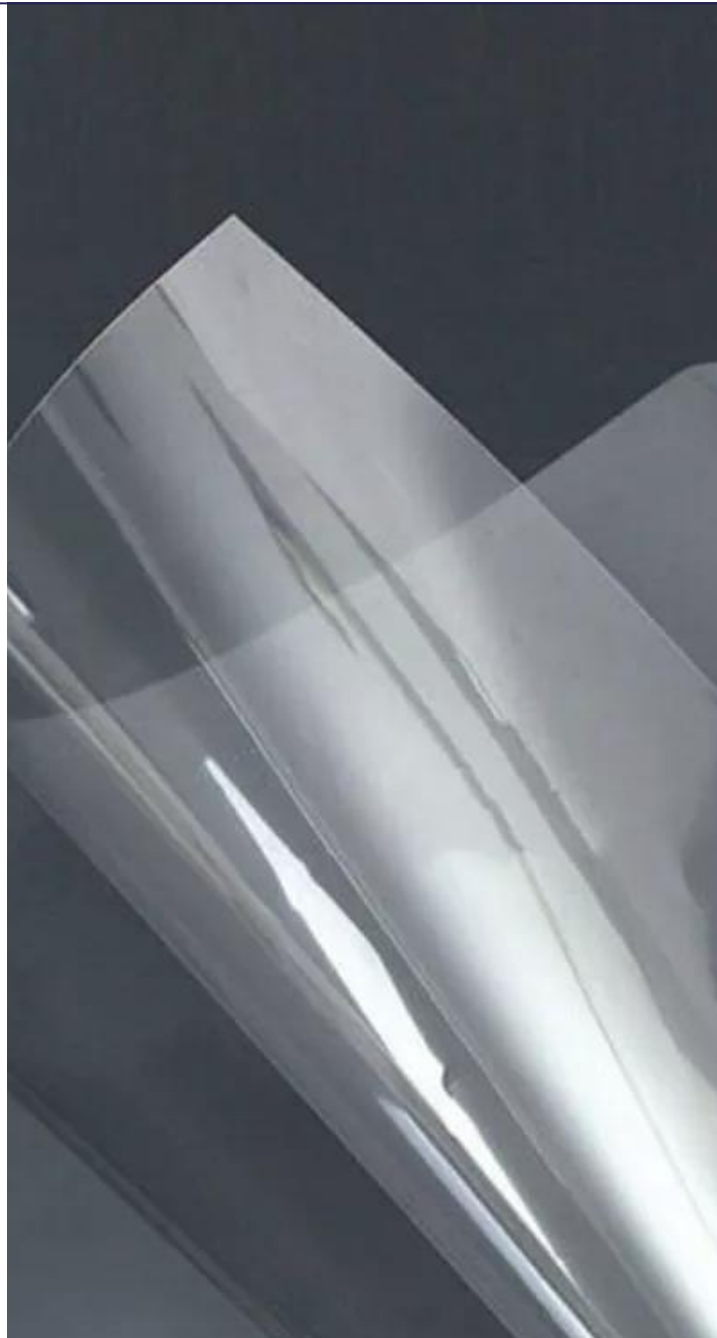
The heat stability of the sheets and the compatibility with many standard solvent-based inks makes it a fantastic choice for push-button covers for applications such as washing machines and dishwashers.

### Uses

- Menu boards, back-lit signs and panels
- Packaging
- Light management and diffusion applications
- Push-button covers
- Backlit Displays

### Basic info

- ✓ Outstanding toughness with abrasion resistance
- ✓ High tensile strength
- ✓ High Heat Resistance
- ✓ Excellent ink adhesion
- ✓ Easy to die cut





## Technical Data

### Availability

Colours	Gauge (mm)	Sheet size (mm)
Matt/Velvet (G42)	0.175 0.25 0.38 0.50	1220 x 930
Gloss/Velvet (G41)	0.25	1220 x 930 930mm x 236m (Roll)

### Technical Properties

Property	Test Method	Unit	Value
<b>General</b>			
Specific Gravity	ASTM D 792		1.20
Conversion Factor		ft <sup>2</sup> /lb-mil   m <sup>2</sup> /kg-mm	161   0.833
Gloss 60° top side black inked second surface	ASTM D 2457	Gloss Unit	> 90
Gloss 60° reverse side	ASTM D 2457	Gloss unit	> 90
Roughness, R3z, top side	ISO 4287/88	µm	≤ 0.5
Roughness, R3z, reverse side	ISO 4287/88	µm	≤ 0.5
Surface			gloss/gloss
<b>Mechanical</b>			
Tensile Strength, Yield	ASTM D 882	psi	9,100
Tensile Strength, Break	ASTM D 882	psi	10,500
Elongation at Break	ASTM D 882	%	125
Flexural Modulus	ASTM D 790	Psi	330,000
Tear Strength, Initiation	ASTM D1004	lb/in	1,100
<b>Thermal</b>			
Coefficient of linear thermal expansion parallel 20°C to 120°C	DIN 53752	10 <sup>-6</sup> /K	70
Coefficient of linear thermal expansion across 20°C to 120°C	DIN 53752	10 <sup>-6</sup> /K	70
Shrinkage, parallel 130°C, 1h	IEC 60674-2	%	< 0.4
Shrinkage, across 130°C, 1h	IEC 60674-2	%	< 0.4
Heat Deflection Temperature 1.82 MPa	ASTM D 648	°F	270
0.45 MPa			288
Vicat Softening Temperature, Rate A	ASTM D 1525	°F	297
<b>Flammability</b>			
Burning Rate (FMVSS 302)	ISO 3795	mm/min	≤ 100
UL Listing	UL 94 V-2	min. thickness	0.015" (375 µm)
UL Listing	UL 94 VTM-2	min. thickness	0.005" (125 µm)
<b>Optical</b>			
Haze	ASTM D 1003	%	> 1
Light Transmittance	ASTM D 1003	%	89
Yellowness Index	ASTM E 313		1
<b>Other</b>			
Water Absorption (saturation)	ISO 62	%	0.20
Water Absorption (immersion at 73°F/24h)	ASTM D 570	%	0.35



#### Contact

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