

141-331

Your Ref

Our Ref

PRODUCT INFORMATION.

General information:

Polyester film is a versatile, high performance material which is used in preference to Acetate or PVC, where the application requires extra heat resistance, flexing or tear strength, chemical or ageing resistance or barrier properties. It also offers excellent clarity, a lustrous surface finish, good electrical insulation, accuracy of thickness, high dimensional stability and very low water absorption.

Polyester film may be guillotined, punched, drilled and cold folded and is printable by screen, offset litho, letterpress, gravure and flexographic processes - but it is difficult to thermoform and should only be sealed by Ultrasonic or heat beading techniques

For many end uses, such as Plotter films or drafting films, special coatings or formulation modifications are needed, but Film Sales stock - suitable for all applications listed below - is based upon Melinex '0', '00', '400' and '401' grades.

Typical applications:

\* Printing uses:

Membrane switches.  
DHP transparencies.  
Exploded diagrams and overlays.  
Calendars.  
Signs and labels.  
Dart flights.  
Planning grids.  
Table mats.

General uses:

Carton windows.  
Temporary windscreens.  
Document encapsulation.  
Electrical slot liners.  
Book jacket covers.  
Photo albums.  
Litho Montage.  
Wallets.

\* For sheet fed offset printing, Film Sales specialise in the supply of cut-to-size press ready sheets, edge bonded with MG poster paper, suitable for direct use on any unmodified litho press.

Formats:

Polyester may be supplied in the optimum format for your process. Standard sheets are stocked in the sizes and gauges detailed on the price list, but supply may also be in the form of slit reels, short length reels or guillotine cut sheets and panels, which may be interleaved with tissue, 70 gsm MG poster or c.40 gsm blue grid printed papers.

Conversion service:

Most applications require finishing processes for which specialist advice is freely available from Film Sales, based upon 20 years' conversion experience. Should it prove more convenient to contract out such work, Film Sales offer a variety of finishing services:-

Shape cutting ... .. Creasing ... .. Folding ... .. Bending  
Pad making .. ... Hold punching ... Guillotining ... Corner cutting  
Unit packaging.



**INSTAGRAPHIC LIMITED**

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All operations are conducted entirely in-house and are included in our rapid quotation service.

Technical specifications:

| Property.                         | Test method.                | Test unit.            | Test result.                                             |
|-----------------------------------|-----------------------------|-----------------------|----------------------------------------------------------|
| Specific gravity.                 | -                           | -                     | 1.4                                                      |
| Tensile strength.                 | BS2782 Part 3/320A/1976.    | Kg/mm <sup>2</sup>    | 11                                                       |
| Elongation at break.              | BS2782 Part 3/320A/1976.    | %                     | 100                                                      |
| Folding endurance.                | ASTM 2176-E9 (MIT Flexion). | Cycles                | 23 x 10 <sup>5</sup>                                     |
| Moisture absorption.              | ASTM D570-63/1972.          | % by weight           | 0.6                                                      |
| Water vapour permeability.        | BS3177 @ 38°C 90% RH        | g/m <sup>2</sup> /24h | 22                                                       |
| Melting point.                    | BS2782 Part 1/102C/1970.    | °C                    | 260                                                      |
| Specific heat.                    | -                           | cal/g/°C              | 0.32                                                     |
| Coefficient of thermal expansion. | -                           | cm/cm/°C              | 19 x 10 <sup>-6</sup> (MD)<br>16 x 10 <sup>-5</sup> (TD) |
| Light transmission.               | ASTM D1003-61/1970.         | %                     | 68                                                       |
| Haze.                             | ASTM D1003-61/1970.         | -                     | .4                                                       |
| Refractive index.                 | -                           | -                     | 1.6                                                      |

APPROXIMATE YIELDS.

|         | gsm. | m <sup>2</sup> /kg. |
|---------|------|---------------------|
| 50 mu.  | 71   | 14                  |
| 75 mu.  | 105  | 9.5                 |
| 100 mu. | 141  | 7.1                 |
| 125 mu. | 175  | 5.7                 |
| 175 mu. | 250  | 4.0                 |

The information contained in this leaflet is, to the best of our knowledge, true and accurate. Since the conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee.

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