



POLYESTER FILM FOR THE PROTECTION OF DOCUMENTS, ARCHIVED MATERIALS, PHOTOGRAPHS AND DISPLAYS

Polyester film is an ideal medium for the protection of precious documents and similar materials due to its inert surface, exceptional clarity, toughness and strength. Documents can be read at any time without being handled and even photographed without removal of the polyester cover or sleeve.

Where complete encapsulation of the archived item is required, polyester film can be ultrasonically welded and sealed.

Polyester film has been used in albums to protect banknotes, to protect first day cover stamps, in the storing of charters for the national archives in the province of Utrecht, by the Bodleian Library Paper Conservation Department and by the Victoria and Albert Museum for the encapsulation of The Heal Textile Sample Books.

A vital consideration when comparing polyester films to other materials used in this type of application is that it contains no plasticisers that might migrate to the surface and damage the material it is intended to protect.

The manufacture of polyester films supplied by HiFi for these applications complies with the Montreal Protocol and there is no intentional addition of any ozone depleting substances. In addition, the manufacturing process does not intentionally add:

- The following metals and/or their compounds:- cadmium, mercury, lead, nickel, hexavalent chromium, arsenic, copper, beryllium, selenium, tellurium, thallium, metal carbonyls or organic tin.
- Asbestos
- Cyanides
- Phenol (Monomer)
- Toluene
- Xylenes
- Benzene
- Fire retardants (PBB's, PBT's PCB's, PBDE's, PCBE's etc.)
- Halogenated polymers

Polyester film is also resistant to the following:- dilute acids and alkalis, concentrated hydrochloric acid, greases, oils and fats, organic solvents, alcohols and hydrocarbons, ketones, esters and chlorinated compounds.

HiFi polyester film grades PMX727 and PMX700 have passed the 'Photographic Activity Test' (PAT) for use in contact with photographs. Please contact us for information on the correct film grade for your particular application.

ISO 9001 : 2000

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Enquiries should be addressed to:

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Specialist converter and distributor of polyester films

COMPARISON OF MATERIALS

	UPVC	EVA	CAST POLYPROPYLENE	ORIENTED POLYSTYRENE	ACETATE	POLYESTER
Min melting pt (°C)	212	–	170	240	306	255
Min TLG (°C)	75	–	–10	85 to 105	105	80
Dimensional change @ 100°C/30 min (%)	–0.2	<1.0	–	–	–0.4	<0.5
Continuous service temp range (°C)	up to 79	up to 71	–18 to +140	–63 to +88	–	–79 to +130
Ultimate tensile strength (kgf/mm ²)	6	1.4	4	7	9.3	22
Modulus (kgf/mm ²)	245	4	157	275	275	343
Impact strength (kgcm ⁻¹)	16	–	2	3	–	27.5
Mullen burst strength (k Pa)	235	–	–	–	410	362

Solvent Resistance

Acids	good	moderate	good	good	moderate	good
Greases	good	poor	good	variable	good	good
Organic solvents	variable	moderate	good	variable	variable	good

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