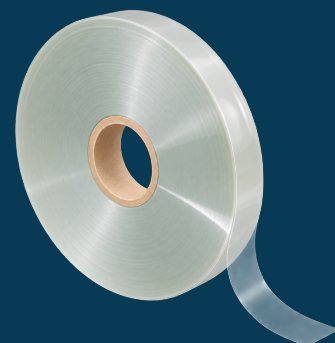


PET / CLEAR POLYESTER FILM

PET Polyester Film Tape

PET23 / PET36 / PET50

Biaxially oriented, uncoated transparent polyester film for cable core binding, layer separation and electrical insulation.



23 / 36 / 50 µm
FILM THICKNESSES

Clear PET
UNCOATED FILM

Pads & spools
SUPPLY FORMATS

Manchester stock
FAST CONVERSION

CABLE BINDING AND SEPARATION

Thin, strong film for stable cable constructions.

PET provides a smooth, electrically insulating wrap with little addition to cable diameter. Its strength and flexibility support controlled taping, while low moisture absorption and chemical resistance suit a wide range of cable constructions.

Typical applications in cable production

Core binding

Wrap laid-up cores, pairs and fillers to retain the assembly before screening or sheath extrusion.

Layer separation

Separate insulated cores or conductor groups from adjacent layers in power, control and instrumentation cables.

Screen isolation

Provide an insulating separator beneath or between metallic screens, where required by the cable design.

Data and communication cables

Wrap cabled pairs and internal groups with a thin separator layer while limiting overall construction build-up.

Material advantages

Low construction build-up

Thin film for compact binding and separator layers.

Mechanical strength

Supports wrap integrity during cable manufacture.

Electrical insulation

Dielectric film for separation within validated constructions.

Smooth film surface

Good slip and machinability for controlled application.

Low moisture absorption

Helps limit moisture uptake by the film.

Clear, glossy finish

Transparent single film; wound layers appear pale and translucent.

MANCHESTER STOCK / SLITTING AND SPOOLING

PET master rolls are held in Manchester for fast slitting and spooling to your required widths and winding formats. Local conversion supports smaller minimum order quantities and flexible production requirements.

Uncoated PET is non-adhesive. It does not provide metallic screening, waterblocking or mica-type fire protection.

Technical data

PET23 / PET36 / PET50 - typical material values

PROPERTY	UNIT	PET23	PET36	PET50
Nominal thickness	µm	23	36	50
Yield	m ² /kg	31.1	19.9	14.3
Tensile strength - MD	kg/cm ²	2100	2000	1900
Tensile strength - TD	kg/cm ²	2200	2100	2000
Elongation at break - MD	%	140	150	170
Elongation at break - TD	%	135	145	150
Heat shrinkage - MD*	%	1.6	1.6	1.6
Heat shrinkage - TD*	%	0.2	0.2	0.2
Coefficient of friction - static	-	0.40	0.42	0.42
Coefficient of friction - dynamic	-	0.35	0.32	0.32
Surface tension - plain side	dyne/cm	42	42	42
Haze	%	3.0	4.2	4.2
Light transmission	%	88	88	88
Breakdown voltage	kV	6	9	11

MD = machine direction; TD = transverse direction. *Heat shrinkage measured at 150 °C for 30 minutes. Friction values refer to side A / side B. Values and units are retained from the supplied grade datasheets; test methods and tolerances were not specified.

Supply formats

FORMAT / DIMENSION	PAD WOUND	SPOOL / TRAVERSE
Slit width - PET23	10-900 mm	10-60 mm
Slit width - PET36 / PET50	8-900 mm	5-60 mm
Core internal diameter	76 or 152 mm	76 mm
Maximum outer diameter	550 mm	300 mm
Core width	Not applicable	100-350 mm

Custom slit widths, sizes and winding arrangements are available on request.

Grade selection and processing

Select the lowest thickness that meets the required binding, separation and electrical performance. PET23 gives the highest area yield; PET36 and PET50 provide greater film thickness and higher typical breakdown voltage. Match slit width, overlap and tension to the core diameter, equipment and construction, and confirm flat wrapping and stability through extrusion.

Typical values are guidance, not guaranteed specifications. Breakdown voltage is not a cable working-voltage rating. The shrinkage test temperature is not a continuous-service rating. Validate the complete cable and processing conditions for the intended application.