PET Metallised Silver

Wet and Thermal PET lamination films

Silver metallised PET films with a mirror effect, good barrier properties and a chemically treated surface for printing and finishing.

Key features

- Silver mirror-effect finish
- Opaque, printable metallised surface
- Chemically treated surface
- Excellent printability and machinability
- Hot knife recommended
- Good barrier properties

Finishing compatibility

- Glueable hot-melt
- Standard stamping designs
- Standard screen-print varnish standard
- Digital varnish 3D standard
- Printable offset oxidative
- Printable offset UV
- Food contact approved
- Thermal/Wet

Specifications

BASE FILM	Biaxially oriented polyester (BOPET)
SURFACE FINISH	Opaque silver metallised gloss

Typical properties

PROPERTY	Wet	Wet	UNIT	TEST METHOD
Thickness	8	10	µm	-
Thickness	0.31	0.4	mil	-
Yield	89.29	71.43	m²/kg	Internal method
Yield	62,850	50,221	in²/lb	Internal method
Optical density	2.2	2.2	%	Internal method
Surface tension	42	44	mN/m	ASTM D2578
Coefficient of friction	0.60	0.40	-	Internal method
Application temperature	-	-	°C	Internal method
Application temperature	-	-	°F	Internal method
Lamination strength[1]	-	-	N/25.4 mm	Internal method
Lamination strength[1]	-	-	lb/in	Internal method

[1] On unprinted paper. Food-contact approval available on request.

Figures are indicative values from the supplier specification. Verify performance for the intended print and lamination process.

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Metallised PET 12 Micron

Metallised Polyester Film

Metallised PET film for flexible packaging, with plasma treatment for metal adhesion and barrier performance.

Key features

- 12 micron metallised polyester film
- Suitable for flexible packaging
- Plasma-treated corona surface
- Enhanced metal adhesion and barrier
- Chemically pretreated reverse side

Film options

- Metal on corona-treated side
- Coating outside option
- Coating inside option
- Solvent-based inks and adhesives

Specifications

BASE FILM	Polyester film (PET)
SURFACE FINISH	Metallised; chemically pretreated reverse

Typical properties

PROPERTY	WET	UNIT	TEST METHOD
Optical density	2.2	-	Internal method
Nominal thickness	12	µm	Internal method
Nominal thickness	48	gauge	Internal method
Yield	59.6	m²/kg	Internal method
Yield	42,000	in²/lb	Internal method
Tensile strength - MD	2,200	kg/cm²	ASTM D882
Tensile strength - MD	31.5	kpsi	ASTM D882
Tensile strength - TD	2,300	kg/cm²	ASTM D882
Tensile strength - TD	32.9	kpsi	ASTM D882
Elongation at break - MD	130	%	ASTM D882
Elongation at break - TD	125	%	ASTM D882

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Metallised PET - 12 Micron

Thermal, surface and barrier properties

PROPERTY	WET	UNIT	TEST METHOD
Heat shrinkage - MD[1]	2.0	%	ASTM D1204
Heat shrinkage - TD[1]	0.2	%	ASTM D1204
Static friction (A/B)	0.65	-	ASTM D1894
Dynamic friction (A/B)	0.60	-	ASTM D1894
Surface tension - coated side	42	dyne/cm	ASTM D2578
Gloss at 60°	820	%	ASTM D2457-97
WVTR (37.7°C, 90% RH)	1.0	g/m²/day	ASTM F1249
OTR (23°C, 0% RH)	1.2	cc/m²/day	ASTM D3985-95

[1] Heat shrinkage measured at 150°C for 30 minutes.

Standard roll sizes

CORE ID	STANDARD LENGTH	ROLL OUTER DIAMETER
76.2 mm / 3 in	12,000 m / 40,000 ft	462 mm / 18.2 in
154.4 mm / 6 in	12,000 m / 40,000 ft	487 mm / 19.2 in
154.4 mm / 6 in	18,000 m / 60,000 ft	582 mm / 22.9 in
154.4 mm / 6 in	24,000 m / 80,000 ft	663 mm / 26.1 in
154.4 mm / 6 in	36,000 m / 120,000 ft	801 mm / 31.5 in

Length and outer diameter tolerance: ±5%. Slit widths normally 400-3,000 mm. Other lengths and widths available on request. Properties may be adjusted to meet specific customer requirements.

Values are indicative and provided for investigation and verification. Confirm suitability for the intended application before use; no guarantee of fitness for a specific purpose is given.

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