

# Four technologies – One source.



Made by Sihl

# THERMAL TECHNOLOGY

Sihl brings information to life.



# Laminates

- Innovative
- Tailor made
- Variable

# Direct Coated

- TC – Top coat
- NTC – Non-Top coat
- DC – Double coated



Sihl laminates for custom-made material combinations make your tickets unique.



Direct Coated Thermal Papers for individual use in all market segments.

# Films

- PE
- PET

# Security

- Base-paper
- Coatings
- Laminates



Sihl Thermal Films for high-class tickets, tags and cards.

Sihl Security Papers – driving counterfeiters to despair.

# A strong bond.

## Laminates

standard  
tear-resistant  
extra thick

### THERMAL TECHNOLOGY



Our flexibility in combination with the latest technology in production equipment for multi-layer products enables us to laminate various materials. Experience the advantages of different media in one product family.

- Grammage (170 - 400 gsm)
- Top coat/Non Top coat
- Standard – paper/paper
- Tear-resistant – paper/film
- Self-adhesive thermal paper
- Different reverse sides
- Easy to print

	Quality	Weight gsm	Thickness µm	TC	DC	Resolution
Laminates	V-Top 175	175	160	●	●	200 - 300 dpi
Laminates	V-Top 220	225	245	●		200 - 300 dpi
Laminates	V-Top 390 N	370	380	●	●	200 - 300 dpi
Laminates	TOP 80/36/82 PTT gloss	215	180	●	●	200 dpi
Laminates	TOP 80/40/50 OS	170	185	●		200 dpi
Laminates	TOP 80/75/82 PTT gloss	270	220	●	●	200 dpi

The above listed values for physical characteristics are average values. Please see our technical data sheets for detailed information. The overview shows the most popular grades. For the complete overview contact our sales department.

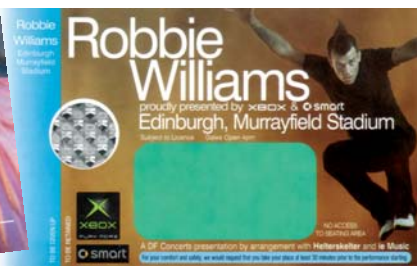
# The "Plus" is included.

# Direct Coated

TC  
NTC  
DC

Made by Sihl

## THERMAL TECHNOLOGY



- Sensitivity
  - High sensitive thermal reaction
- Printability
  - All standard printing methods
  - DC grade for brilliant reverse side printing
- Protection
  - Full top coat

We supply a new range of high-class top coated (ALPHA + ALPHA plus) and non top coated grades depending on our customers demand.

- Grammage (80 - 270 gsm)
- Resolution
  - High contrast for 200 + 300 dpi

	Quality	Weight gsm	Thickness µm	TC	NTC	DC	Resolution
TicketTherm	ALPHA 155	135	150	●			200 - 300 dpi
TicketTherm	ALPHA 160 DC	185	175	●		●	200 - 300 dpi
TicketTherm	ALPHA 185	185	177	●			200 - 300 dpi
TicketTherm	ALPHA 185 plus	195	205	●			300 dpi
TicketTherm	ALPHA 190 DC plus	212	200	●		●	300 dpi
TicketTherm	ALPHA 240 DC	255	240	●		●	200 - 300 dpi
TicketTherm	PRO 100 DC	110	95		●	●	200 - 300 dpi
TicketTherm	PRO 150 N	135	150		●	●	200 - 300 dpi
TicketTherm	PRO 170 DC	175	165		●	●	200 - 300 dpi

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# Value is the trend.

# Filmpes PET

## THRMAL TECHNOLOGY



Sihl thermal film is ideal for high quality and value event & leisure tickets, vip passes, membership cards and sophisticated tags.

- Sensitivity – High sensitive thermal reaction
- Printability – All standard printing methods
- Protection – Full top coat
- Tear-resistant
- Dimensionally stable

- Grammages (55 - 330 gsm)
- Resolution – High contrast for 200 dpi

	Quality	Weight gsm	Thickness µm	TC	colour	Resolution
Thermal Film	SR-115 WP	120	120	●	white	200 dpi
Thermal Film	SR-175 K1*	190	165	●	white	200 dpi
Thermal Film	SR-200 K1*	225	190	●	white	200 dpi
Thermal Film	SR-220 K1*	260	215	●	white	200 dpi
Thermal Film	SR-270 K1	330	265	●	white	200 dpi

\*Further possible grades which are available on request.

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# Only 100 % is acceptable.

# Coloured Centre Security Fibres Watermarks

Made by Sihl  
**THERMAL**  
TECHNOLOGY

Genuine security is only achievable by creating unique products. Sihl have worked intensively in order to add paper security features to tickets.

Use our expertise and make your selection from the different options to improve your position in the market.

- Grammages (100 - 400 gsm)
- Top coat/ Non Top coat
- Watermarks
- Visible or UV-active fibres
- Coloured centre
- Tear-resistant (paper/film)
- Different reverse options



	Quality	Weight gsm	Thickness µm	TC	NTC	DC	Resolution
Security	ST 100 FWZ	120	120		●		200 dpi
Security	ST 160 CC-R	165	160	●			200 - 300 dpi
Security	ST 190 CC-R	185	185	●		●	200 - 300 dpi
Security	ST 190 CC-B	195	190	●		●	200 - 300 dpi
Security	TOP 64/39/50 OE	170	185	●			200 dpi
Security	TOP 99/100/170 PC	400	370	●		●	200 dpi

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Brazil	Poland
Canada	Qatar
Chile	Russia
China + Hong Kong	Saudi Arabia
Denmark	Singapore
Egypt	South Africa
Finland	Spain
Greece	Sudan
Indonesia	Syria
Iran	Taiwan
Italy	Thailand
Jordan	Turkey
Korea	Ukraine
Kuwait	U. A. E.
Lebanon	USA
Malaysia	Vietnam