



THERMAL TECHNOLOGY

Four technologies –
one source



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Sihl GmbH
Kreuzauer Str. 33
52355 Düren · Germany
T +49 2421 597 0
E info@sihl.com

Sihl Inc.
121 Kelsey Lane; Suite G
Tampa, FL 33619 · USA
T +1 401 366 7393
E customerservice@sihl.com

www.sihl.com

Direct coated papers

Sihl supplies a comprehensive range of high-class thermal papers; ALPHA, ALPHA plus and PRO grades with or without topcoat. Available with coated and double coated reverse sides depending on our customers demand to the print result.

Relevant features

- > Weights from 100 – 270 gsm
- > Resolution: high contrast for 200 – 300 dpi
- > Sensitivity: high sensitive thermal reaction
- > Printability: all standard printing methods
 - C: coated grade for brilliant reverse side printing
 - DC: double coated grade for excellent reverse side printing



	Grade	Weight gsm	Thickness µm	Resolution dpi	IC ¹⁾	DC ²⁾	FSC®	Stock item	BP free
topcoated	6603 – ALPHA 155	150	150	200 – 300	✓	—	✓	✓	✓
	6568 – ALPHA 160 DC	180	160	200 – 300	—	✓	✓	✓	✓
	6601 – ALPHA 185	180	185	200 – 300	✓	—	✓	✓	✓
	6550 – ALPHA 190 DC plus	210	185	300	—	✓	✓	✓	✓
	6608 – ALPHA 240 DC	260	235	200 – 300	—	✓	✓	✓	✓
non-topcoated	6557 – PRO 100 DC	105	100	200 – 300	—	✓	✓	✓	✓
	6576 – PRO 150	150	150	200 – 300	✓	—	✓	✓	✓
	6533 – PRO 160	170	180	200 – 300	—	—	✓	✓	✓

¹⁾ Coated reverse side ²⁾ Double coated reverse side | All values are average values. Please see our technical data sheets for detailed information. The overview shows the most popular grades. For a complete overview contact our sales department.

Security

True security is only achievable by creating unique products. After intensive research and development Sihl is able to add first class security characteristics to the ticket materials. Use the expertise and take your pick of various security features which can be integrated in thermal coated papers.

Relevant features

- > Weights from 100 – 180 gsm
- > Available with or without topcoat
- > Available security features: watermarks, visible or UV-active fibres, coloured centre, tear resistance



	Grade	Weight gsm	Thickness µm	Resolution dpi	DC ¹⁾	FSC®	Stock item
top-coated	6597 – ST 190 CC-R	180	180	200 – 300	✓	✓	—
non-topcoated	6509 – ST 100 UVF	100	115	200	—	—	—
	6594 – ST 160 NWW	160	165	200	—	—	—

¹⁾ Double coated reverse side | All values are average values. Please see our technical data sheets for detailed information. The overview shows the most popular grades. For a complete overview contact our sales department.

Direct coated films

Our high-class thermal topcoated films are suitable for diverse applications due to their high resistance to tear propagation. They are very robust and offer high stiffness.

Relevant features

- > Weights from 55 – 325 gsm
- > Available with topcoat
- > Resolution: high contrast for 300 dpi
- > Sensitivity: high sensitive thermal reaction
- > Printability: all standard printing methods
- > Tear resistant
- > Dimensionally stable



	Grade	Weight gsm	Thickness µm	Resolution dpi	Topcoat	Stock item	Phenol free
topcoated	7805 – SR-95 WP	100	105	200 – 300	white matt	✓	✓
	7804 – SR-115 WP	120	125	200 – 300	white matt	✓	✓
	7827 – SR-270 K1	305	250	200 – 300	white matt	✓	✓
	7820 – SR75 PP W	55	75	200 – 300	white matt	✓	✓

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Laminates

The flexibility in combination with state-of-the-art equipment for multi-layer products, enables Sihl to laminate various materials. The tear resistant versions of the laminates are durable and keep their high-class look even after long-term use.

Relevant features

- > Weights from 170 – 370 gsm
- > Available with or without topcoat
- > Tear resistant laminate: thermal paper/film/paper
- > Non tear resistant laminate: thermal paper/paper
- > Printability: all standard printing methods



	Grade	Weight gsm	Thickness µm	Resolution dpi	DC ¹⁾	FSC®	Stock item
topcoated	7004 – Thermal 180 High sensitivity ²⁾	170	170	200 – 300	✓	✓	✓
	7011 – Thermal 200 J ²⁾	200	205	200	—	✓	✓
	7015 – Thermal 205 G ²⁾	200	175	200	—	✓	—
	7012 – Thermal 290 N ²⁾	290	265	200	✓	✓	—
	7007 – Thermal 295 M ²⁾	300	275	200	✓	✓	—
	7035 – Thermal 380 High sensitivity ²⁾	370	390	200 – 300	✓	✓	—
	6545 – V-Top 390 ³⁾	370	385	200 – 300	✓	✓	—

¹⁾ Double coated reverse side ²⁾ Tear resistant laminate ³⁾ Non tear resistant laminate | All values are average values. Please see our technical data sheets for detailed information. The overview shows the most popular grades. For a complete overview contact our sales department.