



# Grade Overview Thermal Paper

## Grade Overview

	Grade	Substance (gsm)	Caliper (µm)	Dynamic Sensivity	Resistance	Archivability (years)	Reverse Side Coat	UV Offset Printability
Ticket Topcoat	TF 7056	74	77	●●●○	●●●○	12		✓
	TF 7067	73	75	●●●○	●●●○	12		✓
	TF 8056	82	84	●●●○	●●●○	12		✓
	TF 8067	82	84	●●●○	●●●○	12		✓
	DK 8067	88	86	●●●○	●●●○	12	thermal	✓
	TN 8067	84	86	●●●○	●●●○	12	barrier	✓
	TF 8075	82	86	●●●●	●●●○	12		✓
	TF 9067	97	100	●●●○	●●●○	12		✓
	TF 1056	106	110	●●●○	●●●○	12		✓
	TF 1067	106	110	●●●○	●●●○	12		✓
	TF 1075	107	112	●●●●	●●●○	12		✓
	TM 1075	111	115	●●●●	●●●○	12	pigment	✓
	TF 1267	127	134	●●●○	●●●○	12		✓
	TM 1275	129	132	●●●●	●●●●	12	pigment	✓
	TF 1467	138	143	●●●○	●●●○	12		✓
	TM 1567	149	152	●●●○	●●●○	12	pigment	✓
	TF 1667	163	175	●●●○	●●●○	12		✓
	TF 1767	173	187	●●●○	●●●○	12		✓
	TF 1767 RP	166	175	●●●○	●●○○	10		✓
	TF 1775	174	187	●●●●	●●●○	12		✓
	TN 1775	176	190	●●●●	●●●○	12	barrier	✓
	TM 1767	174	184	●●●○	●●●○	12	pigment	✓
	TZ 1767	178	170	●●●○	●●●○	12	pigment	✓
	TF 2167	209	231	●●●○	●●●○	12		✓
	TN 2267	220	245	●●●○	●●●○	12	barrier	✓
	TF 2467	224	255	●●●○	●●●○	12		✓
	TN 2475	233	264	●●●●	●●●○	12	barrier	✓
	TF 2567	236	265	●●●○	●●●○	12		✓
TF 2667	259	380	●●●○	●●●○	12		✓	

**Dynamic Sensivity**

●○○○ = low ●●○○ = standard ●●●○ = high ●●●● = maximum

**Resistance** against Environmental Influences / Image Stability

●○○○ = standard ●●○○ = good ●●●○ = very good ●●●● = excellent

The explanation of applications 1–8 can be found under the flap at the back of the brochure.

Phenol Category		Special Features	Applications							
BP free	P free		1	2	3	4	5	6	7	8
		excellent heat resistance up to 100 °C (212 °F)		2		4	5			
✓	✓	topcoat with excellent allround properties				4	5	6		
		excellent heat resistance up to 100 °C (212 °F)				4	5	6		
✓	✓	topcoat with excellent allround properties				4	5	6		
✓	✓	double-sided thermal topcoat				4	5	6		
✓	✓	topcoat with excellent allround properties, reverse side barrier coat				4	5	6		
✓		maximum sensitivity, excellent barcode print, 300 dpi resolution				4	5	6		
✓	✓	topcoat with excellent allround properties				4	5		7	
		excellent heat resistance up to 100 °C (212 °F)				4	5		7	
✓	✓	topcoat with excellent allround properties			3	4	5			
✓		maximum sensitivity, excellent barcode print, 300 dpi resolution			3		5			
✓		reverse side pigment coat (matt), best reverse side printability, 300 dpi resolution, maximum sensitivity			3		5			
✓	✓	topcoat with excellent allround properties				4	5			
✓		reverse side pigment coat (matt), best reverse side printability, 300 dpi resolution				4	5			
✓	✓	topcoat with excellent allround properties				4	5			
✓	✓	reverse side pigment coat (matt)				4	5			
✓	✓	topcoat with excellent allround properties				4	5			
✓	✓	topcoat with excellent allround properties				4	5			
✓	✓	base paper 100 % FSC® recycled, min. 20 % PCW (post consumer waste), topcoat with excellent allround properties				4	5			
✓		maximum sensitivity, excellent barcode print, 300 dpi resolution				4	5			
✓		reverse side barrier coat, maximum sensitivity				4	5			
✓	✓	reverse side pigment coat (matt), topcoat with excellent allround properties				4	5			
✓	✓	reverse side pigment coat (high gloss), topcoat with excellent allround properties				4	5			
✓	✓	topcoat with excellent allround properties				4	5			
✓	✓	reverse side barrier coat				4	5			
✓	✓	topcoat with excellent allround properties				4	5			
✓		reverse side barrier coat, maximum sensitivity				4	5			
✓	✓	topcoat with excellent allround properties				4	5			
✓	✓	380 micron, topcoat with excellent allround properties				4	5			

For detailed information on measurement methods see our technical data sheets.

## Grade Overview

	Grade	Substance (gsm)	Caliper (µm)	Dynamic Sensivity	Resistance	Archivability (years)	Reverse Side Coat	UV Offset Printability
Ticket Non-Topcoat	T 7046	67	75	●●○○	●●○○	10		
	T 7047	67	75	●●○○	●●○○	12		
	T 7056	69	72	●●○○	●●○○	12		
	T 7057	69	75	●●○○	●●●●	20		
	T 7034	73	76	●●○○	●●○○	10		✓
	T 7037	72	75	●●○○	●●●●	25		✓
	T 8046	77	85	●●○○	●●○○	10		
	T 8047	77	85	●●○○	●●○○	12		
	T 8056	78	83	●●○○	●●○○	12		
	T 8057	78	85	●●○○	●●●●	20		
	T 8034	81	85	●●○○	●●○○	10		✓
	T 8037	81	84	●●○○	●●●●	25		✓
	T 9046	94	105	●●○○	●●○○	10		
	T 9047	93	105	●●○○	●●○○	12		
	T 9056	94	103	●●○○	●●○○	12		
	T 9034	96	102	●●○○	●●○○	10		✓
	T 1056	104	112	●●○○	●●○○	12		
	T 1034	105	113	●●○○	●●○○	10		✓
	T 1037	105	111	●●○○	●●●●	25		✓
	T 1247	124	141	●●○○	●●○○	12		
	T 1234	126	135	●●○○	●●○○	10		✓
	T 1237	126	136	●●○○	●●●●	25		✓
	T 1434	136	149	●●○○	●●○○	10		✓
	T 1437	136	144	●●○○	●●●●	25		✓
	T 1634	162	174	●●○○	●●○○	10		✓
	TE 1634	173	180	●●○○	●●○○	10	pigment	✓
	T 1747	170	188	●●○○	●●○○	10		
	T 1734	173	189	●●○○	●●○○	10		✓
	T 1737	173	185	●●○○	●●●●	25		✓
	T 1837	183	200	●●○○	●●●●	25		✓
T 2134	208	232	●●○○	●●○○	10		✓	
T 2437	234	265	●●○○	●●●●	25		✓	
T 2534	235	265	●●○○	●●○○	10		✓	

**Dynamic Sensivity**  
 ●○○○ = low   ●●○○ = standard   ●●○○ = high   ●●●● = maximum

**Resistance against Environmental Influences / Image Stability**  
 ●○○○ = standard   ●●○○ = good   ●●●○ = very good   ●●●● = excellent



## Grade Overview

	Grade	Substance (gsm)	Caliper (µm)	Dynamic Sensivity	Resistance	Archivability (years)	Reverse Side Coat	UV Offset Printability
Label Topcoat	LF 6067	67	68	●●●○	●●●○	12		✓
	LF 7056	74	77	●●●○	●●●○	12		✓
	LF 7067	73	75	●●●○	●●●○	12		✓
	LG 7037	76	72	●○○○	●●●●	25		✓
	LF 8067	82	84	●●●○	●●●○	12		✓
	LN 8067	84	86	●●●○	●●●○	12	barrier	✓
	LF 1056	106	110	●●●○	●●●○	12		✓
Label Linerless	LL 7077	69	72	●●●○	●●●○	12		✓
	LL 8077	77	83	●●●○	●●●○	12		✓
Label Non-Topcoat	L 7046	67	75	●●○○	●●○○	10		
	L 7047	67	75	●●○○	●●●○	12		
	L 7056	69	72	●●●○	●●●○	12		
	L 7034	73	76	●●●○	●○○○	10		✓
	L 7037	72	75	●●○○	●●●●	25		✓

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The explanation of applications 1–8 can be found under the flap at the back of the brochure.

Phenol Category		Special Features	Applications							
BP free	P free		1	2	3	4	5	6	7	8
✓	✓	light-weight								7
		excellent heat resistance up to 100 °C (212 °F)								7
✓	✓	topcoat with excellent allround properties								7
✓	✓	long life, excellent resistance, glossy topcoat								7
✓	✓	topcoat with excellent allround properties								7
✓	✓	reverse side barrier coat, ideal for aggressive chemicals and adhesives								7
										7
✓	✓	special surface treatment for low silicon absorption, high sensitivity								7
✓	✓	special surface treatment for low silicon absorption, high sensitivity								7
										7
✓	✓									7
										7
✓										7
✓	✓									7

For detailed information on measurement methods see our technical data sheets.

## Grade Overview

	Grade	Substance (gsm)	Caliper (µm)	Dynamic Sensivity	Resistance	Archivability (years)	Reverse Side Coat	UV Offset Printability
POS Topcoat	PF 5056	58	60	●●●○	●●●○	12		✓
	PF 5067	58	60	●●●○	●●●○	12		✓
	PF 5075	58	61	●●●●	●●●○	12		✓
	PF 6056	66	68	●●●○	●●●○	12		✓
	PF 6067	67	68	●●●○	●●●○	12		✓
POS Non- Topcoat	P 5046 (46)	46	51	●●○○	●●○○	10		
	P 5047 (46)	46	51	●●○○	●●○○	12		
	P 5057 (47)	47	53	●●●○	●●●●	20		
	P 5046 (55)	55	60	●●○○	●●○○	10		
	P 5047 (55)	55	60	●●○○	●●○○	12		
	P 5056	56	60	●●●○	●●●○	12		
	P 5057 (55)	55	62	●●●○	●●●●	20		
	P 5034	57	61	●●●○	●●○○	10		✓
	P 5037	56	59	●●○○	●●●●	25		✓
	P 5846	58	66	●●○○	●●○○	10		
	P 5847	58	66	●●○○	●●○○	12		
	P 6546	67	75	●●○○	●●○○	10		
	P 6547	67	75	●●○○	●●○○	12		
Lottery	TL 1000	81	85	●●●○	●●○○	10		✓
	TL 3000	82	84	●●●○	●●○○	10		✓

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Phenol Category		Special Features	Applications							
BP free	P free		1	2	3	4	5	6	7	8
		excellent heat resistance up to 100 °C (212 °F)	1	2		4				
✓	✓	topcoat with excellent allround properties	1	2		4				
✓		maximum sensitivity	1	2		4				
		excellent heat resistance up to 100 °C (212 °F)	1	2		4				
✓	✓	topcoat with excellent allround properties	1	2		4				
			1	2						
✓	✓		1	2						
✓	✓		1	2						
			1	2						
✓	✓		1	2						
✓			1	2						
✓	✓		1	2				6		
			1	2		4				
✓	✓		1	2		4				
			1	2		4				
✓	✓		1	2		4				
✓		non-topcoat				3				
✓	✓	topcoat				3				

For detailed information on measurement methods see our technical data sheets.

## Grade Overview

	Grade	Substance (gsm)	Caliper (µm)	Dynamic Sensivity	Resistance	Archivability (years)	Reverse Side Coat	UV Offset Printability
Security Topcoat	CF 18 GR	200	184	●●●○	●●○○	10	pigment	✓
	CF 18 RD	200	184	●●●○	●●○○	10	pigment	✓
Security Non-Topcoat	S 8037	80	84	●●○○	●●●●	25		✓
	S 8039	80	84	●●○○	●●●●	25		✓
	S 8039 Plus	80	84	●●●●	●●●●	25		✓
	S 8039 CM Plus	86	93	●●○○	●●●●	25		✓
	S 1037	100	105	●●○○	●●●●	25		✓
	S 1139 CM Plus	116	125	●●○○	●●●●	25		✓
	S 1237	120	127	●●○○	●●●●	25		✓
	S 1239	120	127	●●○○	●●●●	25		✓
	S 1239 CM	129	145	●●○○	●●●●	25		✓
	S 1339 CM Plus	132	143	●●○○	●●●●	25		✓
	S 1437	140	150	●●○○	●●●●	25		✓
	S 1439	140	150	●●○○	●●●●	25		✓
S 1439 CM Plus	144	160	●●○○	●●●●	25		✓	
HP Indigo <small>Certified for HP Indigo</small>	I 70	73	76	●●●○	●●○○	10		✓
	I 170	173	185	●●●○	●●○○	10		✓
	IE 170	173	180	●●●○	●●○○	10		✓

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Phenol Category		Special Features	Applications							
BP free	P free		1	2	3	4	5	6	7	8
✓	✓	green coloured centre, reverse side pigment coat (matt)					5			8
✓	✓	red coloured centre, reverse side pigment coat (matt)					5			8
✓	✓	UV fluorescent security fibers				4				8
✓	✓	UV fluorescent security fibers, anti-falsification				4				8
✓	✓	UV fluorescent security fibers, anti-falsification, test pen reaction				4				8
✓	✓	visible security fibers, UV fluorescent security fibers, anti-falsification, coating mark, test pen reaction				4				8
✓	✓	UV fluorescent security fibers				4				8
✓	✓	visible security fibers, UV fluorescent security fibers, anti-falsification, coating mark, test pen reaction				4	5			8
✓	✓	UV fluorescent security fibers				4	5			8
✓	✓	UV fluorescent security fibers, anti-falsification				4	5			8
✓	✓	UV fluorescent security fibers, anti-falsification, coating mark				4	5			8
✓	✓	visible security fibers, UV fluorescent security fibers, anti-falsification, coating mark, test pen reaction				4	5			8
✓	✓	UV fluorescent security fibers				4	5			8
✓	✓	UV fluorescent security fibers, anti-falsification				4	5			8
✓	✓	visible security fibers, UV fluorescent security fibers, anti-falsification, coating mark, test pen reaction				4	5			8
✓		thermal side HP Indigo certified	1			4	5		7	
✓		thermal side HP Indigo certified				4	5			
✓		thermal side and reverse side HP Indigo certified				4	5			

For detailed information on measurement methods see our technical data sheets.


**AT A GLANCE:**

- > Substance range from 46 – 259 gsm
- > Several sensitivity levels
- > Excellent print image even on fastest thermal printers
- > Several front and reverse side coatings
- > Archivable for up to 25 years
- > Excellent offset and flexo printability due to curtain coater technology
- > HP Indigo approved thermal paper
- > Bisphenol-free and phenol-free thermal paper
- > Various security features
- > FSC® Mix or PEFC™ certified available



## Applications



### 1 POS

Excellent printability, great durability and very good runability in thermal printers make thermoscript grades ideal for POS applications. Our very light and thin grades, as well as our phenol-free grades are particularly suited to the POS sector.



### 2 MEDICAL

In medicine it is essential that important results can be reproduced accurately and the paper used is very durable. Thermoscript satisfies the requirements of extreme durability, immaculate print head behaviour, excellent printing results and suitability for ultra high-speed printers.



### 3 LOTTERY & GAMING

Our thermoscript products for lottery and gaming satisfy many demands. High sensitivity, best pre-printability, optimum resistance properties and reliable security are essential. The ticket could just be the entrance ticket to a world of big wins.



### 4 TRANSPORT

Whether boarding pass, train ticket or parking ticket – thermoscript grades are used throughout the transport sector for their excellent stampability, printing image stability and durability as well as printability. Also in mobile printing – and with security features.



### 5 ADMISSION TICKETS

Our papers for the most colourfully printed admission tickets are of the best quality. Excellent printability on both the front and reverse sides as well as extreme stability and durability are critical. Security features give maximum protection against counterfeiting.



### 6 BANKING

High-quality, stable and extremely durable thermal papers are required for use at ATMs, multifunction terminals and statement printers. Thermoscript papers have been tested and approved by OEMs for numerous systems.



### 7 LABELS & TAGS

Thermal labels and tags place high demands on the material. The printed image must be sharp so that it can be read correctly by scanners. The paper must be resistant to moisture, temperature fluctuations and plasticizers.



### 8 SECURITY

The composition of thermal paper can only be copied at great expense in any case. If security elements such as coloured center, coating marks or fluorescent fibres are integrated at the mill, the paper is thus rendered virtually forgery proof.

As a responsible manufacturer, we strive to produce and process our products in the most environmentally friendly way and to the highest standards of quality. We take our social responsibility seriously and are active in various environmental associations and organizations. Complying with and conforming to rules and regulations goes without saying. Social commitment is an important part of our corporate culture.

**Certifications:**

- > FSC® Chain-of-Custody
- > PEFC™ Chain-of-Custody
- > DIN EN ISO 9001:2015
- > DIN EN ISO 14001:2015
- > DIN ISO 45001:2018
- > DIN EN ISO 50001:2011



**Memberships:**

- > B.A.U.M.
- > ChePap Rhine-Ruhr
- > Klimapakt Flensburg
- > Ökoprofit® Klub OWL
- > Two Sides
- > Wirtschaft pro Klima



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