



# Grade Overview Thermal Paper

## Grade Overview

Grade	Substance (gsm)	Caliper (µm)	Dynamic Sensivity	Resistance	Archivability (years)	Reverse Side Coat	UV Offset Printability
TF 7056	74	77	●●●○	●●●●	12		✓
TF 7067	73	75	●●●○	●●●●	12		✓
TF 8067	82	84	●●●○	●●●●	12		✓
DK 8067	88	84	●●●○	●●●●	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		✓
TF 1467	138	143	●●●○	●●●●	12		✓
TM 1567	149	152	●●●○	●●●●	12	pigment	✓
TF 1667	163	175	●●●○	●●●●	12		✓
TF 1767	175	187	●●●○	●●●●	12		✓
TF 1767 RP	166	175	●●●●	●●●●	10		✓
TF 1775	175	187	●●●●	●●●●	12		✓
TN 1775	177	190	●●●●	●●●●	12	barrier	✓
TM 1767	174	184	●●●○	●●●●	12	pigment	✓
TZ 1767	182	182	●●●○	●●●●	12	pigment	✓
TM 1875	186	194	●●●●	●●●●	12	pigment	✓
TF 2167	210	231	●●●○	●●●●	12		✓
TN 2267	220	245	●●●○	●●●●	12	barrier	✓
TF 2467	224	255	●●●○	●●●●	12		✓
TN 2467	228	255	●●●○	●●●●	12	barrier	✓
TZ 2467	247	268	●●●○	●●●●	12	pigment	✓
TF 2475	228	255	●●●●	●●●●	12		✓
TN 2475	233	257	●●●●	●●●●	12	barrier	✓
TF 2567	235	265	●●●○	●●●●	12		✓
TN 2567	237	270	●●●○	●●●●	12	barrier	✓
TF 2667	257	380	●●●○	●●●●	12		✓

**Dynamic Sensivity**

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

**Resistance against Environmental Influences / Image Stability**

●○○○ = standard ●●○○ = increased ●●●○ = good ●●●● = very good

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

Phenol Category			Special Features	Applications									
BPA free	BP free	P free		1	2	3	4	5	6	7	8		
✓			excellent heat resistance up to 100 °C (212 °F)		2		4						
		✓	topcoat with excellent allround properties				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		2		4	5	6				
	✓		maximum sensitivity, excellent barcode print, 300 dpi resolution				4	5	6				
		✓	topcoat with excellent allround properties					5		7			
✓			excellent heat resistance up to 100 °C (212 °F)					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				3		5				
		✓	topcoat with excellent allround properties					4	5				
		✓	topcoat with excellent allround properties					4	5				
		✓	reverse side pigment coat					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), top coat 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 (glossy), topcoat with excellent allround properties					4	5				
	✓		reverse side pigment coat, maximum sensitivity					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					4	5				
		✓	reverse side glossy pigment coat, 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				
		✓	topcoat with excellent allround properties					4	5				
		✓	reverse side barrier coat					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 7041	68	74	●●○○	●○○○	7		
	T 7046	68	74	●●○○	●●○○	7		
	T 7047	67	75	●●○○	●●○○	10		
	T 7051	70	75	●●●○	●○○○	7		
	T 7057	69	75	●●●○	●●●●	20		
	T 7033	73	76	●●●○	●●○○	7		✓
	T 7034	73	76	●●●○	●●○○	10		✓
	T 7037	72	75	●●○○	●●●●	25		✓
	T 8041	77	85	●●○○	●○○○	7		
	T 8046	78	86	●●○○	●●○○	7		
	T 8047	78	87	●●○○	●●○○	10		
	T 8051	78	85	●●●○	●○○○	7		
	T 8033	81	85	●●●○	●●○○	7		✓
	T 8034	81	85	●●●○	●●○○	10		✓
	T 8037	81	84	●●○○	●●●●	25		✓
	T 8057	78	84	●●●○	●●●●	20		
	T 9051	95	106	●●●○	●○○○	7		
	T 9033	96	102	●●●○	●●○○	7		✓
	T 9034	96	102	●●●○	●●○○	10		✓
	T 1033	105	110	●●●○	●●○○	7		✓
	T 1034	105	110	●●●○	●●○○	10		✓
	T 1037	105	111	●●○○	●●●●	25		✓
	T 1051	104	112	●●●○	●○○○	7		
	T 1233	126	135	●●●○	●●○○	7		✓
	T 1234	126	135	●●●○	●●○○	10		✓
	T 1237	126	136	●●○○	●●●●	25		✓
	T 1247	121	138	●●○○	●●○○	10		
	T 1251	125	142	●●●○	●○○○	7		
	T 1433	137	144	●●●○	●●○○	7		✓
	T 1434	136	144	●●●○	●●○○	10		✓
T 1437	136	144	●●○○	●●●●	25		✓	
TE 1533	148	151	●●●○	●●○○	7	pigment	✓	

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

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



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

Phenol Category			Special Features	Applications							
BPA free	BP free	P free		1	2	3	4	5	6	7	8
				1	2				6		
✓				1	2				6		
		✓			2		4				
		✓		1	2		4		6		
		✓			2		4	5			
				1	2		4				
	✓				2		4				
		✓						4	5		
				1	2		4				
✓				1	2		4				
		✓			2		4				
					2		4	5			
	✓				2		4	5			
		✓			2		4	5	6		
		✓			2		4	5			
							4	5		7	
							4	5		7	
	✓						4	5		7	
							4	5		7	
	✓						4	5		7	
		✓					4	5		7	
							4	5		7	
							4	5			
	✓						4	5			
		✓					4	5			
		✓					4	5			
							4	5			
	✓						4	5			
		✓					4	5			
			reverse side pigment coat				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 1633	163	174	●●●○	●●○○	7		✓
	TE 1633	174	180	●●●○	●●○○	7	pigment	✓
	T 1733	173	185	●●●○	●●○○	7		✓
	T 1734	173	185	●●●○	●●○○	10		✓
	T 1737	173	185	●●○○	●●●●	25		✓
	T 1747	168	185	●●●○	●●○○	10		
	T 1837	183	200	●●○○	●●●●	25		✓
	T 2133	209	234	●●●○	●●○○	7		✓
	T 2134	208	232	●●●○	●●○○	10		✓
	T 2437	234	265	●●○○	●●●●	25		✓
	T 2533	233	265	●●●○	●●○○	7		✓
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	87	●●●○	●●●●	12	barrier	✓
Label Linerless	LL 7077	66	71	●●●○	●●●●	12		✓
	LL 8077	77	83	●●●○	●●●●	12		✓
Label Non Topcoat	L 6551	65	72	●●●○	●○○○	7		
	L 7051	70	75	●●●○	●○○○	7		
	L 7033	73	76	●●●○	●●○○	7		✓
	L 7034	73	76	●●●○	●●○○	10		✓
	L 7037	72	75	●●○○	●●●●	25		✓
	L 7047	67	75	●●○○	●●○○	10		

**Dynamic Sensivity**

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

**Resistance against Environmental Influences / Image Stability**

●○○○ = standard ●●○○ = increased ●●●○ = good ●●●● = very good

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

Phenol Category			Special Features	Applications							
BPA free	BP free	P free		1	2	3	4	5	6	7	8
							4	5			
			reverse side pigment coat				4	5			
							4	5			
	✓						4	5			
		✓					4	5			
		✓					4	5			
		✓					4	5			
	✓						4	5			
		✓					4	5			
		✓	light-weight label								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
		✓	special surface treatment for low silicon absorption, high sensitivity								7
		✓	special surface treatment for low silicon absorption, high sensitivity								7
			light-weight label								7
											7
											7
	✓										7
		✓	long life, excellent resistance								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	67	68	●●●○	●●●●	12		✓
	PF 6067	67	68	●●●○	●●●●	12		✓
POS Non Topcoat	F 5041 (46)	46	50	●●○○	●○○○	7		
	F 5041 (48)	48	55	●●○○	●○○○	7		
	P 5046 (48)	48	55	●●○○	●○○○	7		
	P 5047 (48)	48	55	●●○○	●●●○	10		
	P 5057 (48)	48	55	●●●○	●●●●	20		
	F 5041 (55)	55	60	●●○○	●○○○	7		
	P 5046 (55)	55	60	●●○○	●○○○	7		
	P 5047 (55)	55	60	●●○○	●●●○	10		
	F 5051 (55)	56	63	●●●○	●○○○	7		
	P 5057 (55)	55	62	●●●○	●●●●	20		
	P 5033	57	59	●●●○	●○○○	7		✓
	P 5034	57	61	●●●○	●○○○	10		✓
	P 5037	56	59	●●○○	●●●●	25		✓
	F 5841	58	65	●●○○	●○○○	7		
	P 5845	58	65	●●○○	●○○○	10		
P 6541	65	73	●●○○	●○○○	7			
P 6547	65	72	●●○○	●○○○	10			
Lottery	TL 1000	81	85	●●●○	●○○○	7		✓
	TL 2000	82	84	●●●○	●●●●	10		✓
	TL 3000	82	84	●●●○	●●●●	10		✓

Dynamic Sensivity

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

Resistance against Environmental Influences / Image Stability

●○○○ = standard ●●○○ = increased ●●●○ = good ●●●● = very good





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

Phenol Category			Special Features	Applications							
BPA free	BP free	P free		1	2	3	4	5	6	7	8
✓			excellent heat resistance up to 100 °C (212 °F)	1	2						
		✓	topcoat with excellent allround properties	1	2						
	✓		maximum sensitivity	1	2						
✓			excellent heat resistance up to 100 °C (212 °F)	1	2						
		✓	topcoat with excellent allround properties	1	2						
				1							
				1							
✓				1							
		✓		1	2						
		✓		1							
				1	2						
✓				1							
		✓		1	2						
				1	2						
		✓		1	2				6		
	✓			1	2						
		✓	long life, excellent resistance	1	2				6		
				1	2						
				1	2				6		
				1							
		✓		1	2				6		
	✓		Non-Topcoat			3					
✓			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	QF 1767	174	187	●●●○	●●●●	12		✓
	CF 18 GR	194	180	●●●○	●●●○	10	pigment	✓
	CF 18 RD	194	180	●●●○	●●●○	10	pigment	✓
Security Non Topcoat	S 8037	80	84	●●○○	●●●●	25		✓
	S 8039	80	84	●●○○	●●●●	25		✓
	S 8039 CM Plus	86	93	●●○○	●●●●	25		✓
	S 1037	100	105	●●○○	●●●●	25		✓
	S 1237	121	127	●●○○	●●●●	25		✓
	S 1239	121	127	●●○○	●●●●	25		✓
	S 1239 CM	128	145	●●○○	●●●●	25		✓
	S 1437	140	150	●●○○	●●●●	25		✓
	S 1439	140	150	●●○○	●●●●	25		✓
	S 1439 CM Plus	144	160	●●○○	●●●●	25		✓
S 1739	172	184	●●○○	●●●●	25		✓	
HP Indigo	I 170	73	76	●●●○	●●○○	7		✓
	I 170	173	185	●●●○	●●○○	7		✓
	IE 170	174	180	●●●○	●●○○	7		✓



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

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

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

Phenol Category			Special Features	Applications							
BPA free	BP free	P free		1	2	3	4	5	6	7	8
		✓	security pigments for electronical detection				4	5			8
		✓	green coloured center					5			8
		✓	red coloured center					5			8
		✓	UV fluorescent security fibers				4				8
		✓	UV fluorescent security fibers, anti-falsification				4				8
		✓	visible security fibers, UV fluorescent security fibers, anti-falsification, coating mark, test pen reaction				4				8
		✓	UV fluorescent security fibers				4				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
		✓	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
		✓	UV fluorescent security fibers, anti-falsification				4	5			8
			thermal side HP Indigo certified	1				5		7	
			thermal side HP Indigo certified					5			
			thermal side and reverse side HP Indigo certified					5			

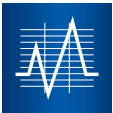
For detailed information on measurement methods see our technical data sheets.

## Applications



### 1 POS & FAX

Excellent printability, great durability and very good runability in thermal printers make thermoscript grades ideal for POS and fax 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 already incorporated at the mill.



### 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 and extreme stability and durability are critical. Security features already incorporated at the mill give maximum protection against ticket 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 can be integrated at the mill, the paper is thus rendered virtually forgery proof, which is a key argument in a variety of applications.

# thermoscript

## AT A GLANCE:

- > Substance range from 46 – 256 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 and Phenol free thermal paper
- > Various security features
- > FSC® Mix and PEFC™ certified



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
- > ISO 9001
- > ISO 14001
- > ISO 50001



**Memberships:**

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



*thermoscript*