Thermal Transfer Ribbons

The Right Ribbon for Every Purpose

CALOR | RTT

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The Experts in Thermal Transfer Ribbons

CALOR | RTT

We are a manufacturer, coater and converter of thermal transfer ribbons.

For decades, we have been collaborating with the leading coaters worldwide – but we also coat our own ribbons at our Normandy plant. Therefore you are sure to find the right quality in our very large product range.

As a manufacturer, we sell to the trade only: to resellers, label manufacturers, system providers, and OEMs. In Europe and worldwide.

Standard products are delivered immediately from stock. Due to our large machine park, we can offer you the shortest lead times also for made-to-measure products. The boxes can be labelled according to your specifications and shipped directly to your customers.

Our products fulfil all requirements as to ingredients and those laid down in the Chemicals Directive REACh. Many of them are approved for the contact with foodstuffs. Our complete process has the ISO 9001:2008 certificate.

As in the past, we want to dedicate ourselves with all our attention, with pleasure and energy to the task of offering you first-class products at advantageous prices with an excellent service also in the future.

We are looking forward to your enquiry!

Your Benefits:

Tried and tested quality products "Made in Germany" and "Made in France".

Support by our professional sales team.

Experienced technicians and engineers advise you on application-specific questions.

Two printing laboratories are at your disposal.

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02

Your Requirement

Our Offer

You are looking for proven qualities in standard dimensions and would like to receive the goods quickly and on easy terms.

The Standard Range

• Basic range of essential products
• Easy to sell
• Short lead times
• Attractive prices

The 8 most best-selling qualities can be found on pages 6/7.

You would like to choose your product from a large range of qualities and have your ribbon manufactured according to your own specifications.

The Flexible Roll Production

• Comprehensive product range with solutions also for difficult materials
• Ribbons made to order
• Branded consumables for increased market presence

All qualities are briefly introduced on pages 10/11.

You need ribbon qualities for highly specific applications and rolls in an unusual design, on particular cores or in cassettes.

Know-how in Development and Coating

• Tailor-made qualities and roll designs
• Special colours
• For special applications other than label printing

You will find examples of developments on pages 12/13.

The 3 Product Lines

Product Line "compact"

A clean-cut range of few selected qualities in the most common dimensions for the most frequently used printers covers the majority of applications. The result: lowest prices and shortest lead times.

Many of our colours are available as standard articles, even in small quantities. The colour range can be found on page 14.

Product Line "made to measure"

You determine the width, length, ribbon quality, core material, and diameter. We slit, wind, pack and label your ribbons. Exactly to the measure of your customers' application and printers.

We store more than 80 colours in jumbo rolls for you – see page 14.

Product Line "special"

We develop ribbon qualities with particular properties according to your specifications. In our **special** range, you will already find products developed in the past for card printing, franking, and outdoor applications.

You will find colours for card printing, signage and outdoor applications on page 15.

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03

Product Line "compact"

The Standard Range

Limitation to the essential and standardisation are the core elements of our **compact** range. These principles enable us to produce in an economical way and to offer you low prices and shortest lead times.

In the following we introduce the 8 qualities with the best price-performance ratio to you. Five more qualities are available in the **compact** range. We supply ribbons in 19 roll types for the most popular printers in the market in frequently sold widths.

Our proven and tested packaging can be labelled according to customer specifications.

Your Benefits:

A clean-cut product range
8 Qualities for 90 % of all applications.

Short lead times
Many dimensions are on stock.

Attractive prices
Thanks to efficient production and standardised articles.

Qualities for Near-Edge Printers

Quality	Wax/Resin – High resolution at highest printing speed		Resin – Very good resistance, universal use on many materials
Quality	direct	perfect	resistNE
Character	High-contrast universal quality	All-round NE quality	Resistant resin quality for many materials
Label stock	All label materials	All label materials, even difficult surfaces	All synthetic films, type plates, smooth, coated papers and cardboards
Application	Direct print on packaging film, high-quality product labels	High-quality product labels, direct print	Long-lasting and highly resistant product identification
Ribbon thickness	7.1 µm	7.0 µm	7.5 µm
Optical density on vellum / PE	1.5 / 1.9	1.45 / 1.9	– / 1.85
Max. printing speed	600 mm/s	300 mm/s	200 mm/s
Approvals	ISEGA-certified for food contact; European Packaging Directive 2004/12/EC; heavy-metal-free according to RoHS; no substances of REACh's SVHC list; halogen-free		ISEGA-certified for food contact; European Packaging Directive 2004/12/EC; heavy-metal-free according to RoHS; no substances of REACh's SVHC list; not halogen-free

Qualities for Flat-Head Printers

Quality	Wax – High sensitivity and blackness, low resistance, low price		
Quality	ratio	brilliant	brilliant+
Character	Standard wax quality very low price	Premium wax quality – high contrast and sensitivity	Wax plus quality with highest resolution and good resistance
Label stock	Coated papers, vellum, cardboard materials	Vellum, coated papers and cardboard materials	All paper and cardboard materials, also preprinted, PE film
Application	Logistics, product identification	Product identification	Product identification with high demands on resistance
Ribbon thickness	7.1 µm	8.6 µm	8.0 µm
Optical density on vellum / PE	1.7	1.85	1.8
Max. printing speed	250 mm/s	300 mm/s	300 mm/s
Approvals	ISEGA-certified for food contact; European Packaging Directive 2004/12/EC; heavy-metal-free according to RoHS; no substances of REACh's SVHC list; halogen-free		ISEGA-certified for food contact; heavy-metal-free according to RoHS; no substances of REACh's SVHC list; halogen-free

Quality	Wax/Resin – Increased resistance, high resolution, universally usable	Resin – Very good resistance, high durability, for smooth materials
Quality	mix	resist
Character	Universal quality for a large range of materials	Highly resistant resin quality with excellent all-round properties
Label stock	Vellum, coated and synthetic papers, all kinds of synthetic film, Tyvek etc.	All synthetic films, type plates, smooth, coated papers
Application	High-quality product identification	Long-lasting and highly resistant product identification
Ribbon thickness	7.5 µm	7.5 µm
Optical density on vellum / PE	1.7 / 2.0	– / 1.85
Max. printing speed	300 mm/s	200 mm/s
Approvals	ISEGA-certified for food contact; heavy-metal-free according to RoHS; no substances of REACh's SVHC list; halogen-free	ISEGA-certified for food contact; European Packaging Directive 2004/12/EC; heavy-metal-free according to RoHS; no substances of REACh's SVHC list; halogen-free, UL certificate

More **compact** qualities:
ecoNE, prima, vario+, ideal, resist+

03

The compact Standard Articles

Here you will find the **compact** standard articles, sorted by length and coated side (inside first). Within a type, each row indicates a standard width and the corresponding packaging unit, and there is a list of the most common printers. Special widths of a type are available at an extra charge for 1" core rolls and quantities over 50 rolls.

30 Standard Dimensions for Near-Edge Printers

N

300 m — Coated side outside 3VA

Width (mm)	Rolls/box
50	30
90	20
110	20
135	10
150	10

For: Valentin Optimo, Spectra, DPM

300 m — Coated side outside T87

Width (mm)	Rolls/box
114	10
160	10
220	10

For:
TEC B 672, 682, 872, SX6;
core = 229 mm; centred;
1 empty core / box

450 m — Coated side inside K01

Width (mm)	Rolls/box
55	32
110	16

For direct-printing systems: Easyprint, Smart Date II, III, IV, V; plastic core;
1 empty core / box

600 m — Coated side inside SMK

Width (mm)	Rolls/box
35	25
55	20

For direct-printing system: Smart Date II, III, IV, V; plastic core;
1 empty core / box

600 m — Coated side outside T57

Width (mm)	Rolls/box
55	20
70	10
80	10
85	10
90	10
102	10
110	10
114	10
135	5

For: TEC SX4, SX5, B 372, 472, 572;
1 empty core / box

600 m — Coated side inside NOV

Width (mm)	Rolls/box
55	20
85	10
110	10
130	5
165	5

For: Avery 64-xx, TTX 450, 650, 950, 1050, TDI, ALX 720, Novexx Lion, Puma, Tiger

900 m — Coated side inside SM9

Width (mm)	Rolls/box
55	12

For: Smart Date III; plastic core;
1 empty core / box

1000 m — Coated side inside AL1

Width (mm)	Rolls/box
55	12
110	6

For: Avery ALX 92x, DPM 4, 5, 6

1000 m — Coated side outside SOD

Width (mm)	Rolls/box
55	12

For: Videojet Dataflex, Zodiac; plastic core;
1 empty core / box

70 Standard Dimensions for Flat-Head Printers

Rolls on 1/2" core

74 m Coated side outside V24		
Width (mm)	Rolls/box	
57	12	
		For: Zebra TLP 2824, TSC TTP-225

74 m Coated side outside VO8		
Width (mm)	Rolls/box	
55	6	
65	6	
85	6	For: Zebra GC/GK/GX 420/430, TLP 2844, TSC TA-Serie, TTP-245, TTP-247 core = 110 mm
110	6	

for **ratio**	
Width (mm)	Rolls/box
55	44
65	44
85	44
110	44

Rolls on 1" core

220 m Coated side inside K26		
Width (mm)	Rolls/box	
50	36	
60	36	
80	24	
90	24	For: Intermec E4, PFxx
110	24	

300 m Coated side outside T52		
Width (mm)	Rolls/box	
60	10	
85	10	
110	10	For: Tec B-452, B-SA4T; core = 118 mm; 1 empty core / box

300 m Coated side outside 3VA		
Width (mm)	Rolls/box	
40	30	
50	30	
60	30	
70	30	
80	20	
90	20	
100	20	
104	20	
110	20	
135	10	
150	10	For different flat-head printers: Delna, Citizen, C-ITOH, Valentin, TEC B-442, B-SV4T, Zebra
170	10	
220	10	

300 m Coated side outside T85		
Width (mm)	Rolls/box	
120	10	
160	10	
220	10	For: Tec B-852; core = 240 mm; 1 empty core / box

300 m Coated side inside 1DI		
Width (mm)	Rolls/box	
40	30	
50	30	
60	30	
76	30	
90	20	
110	20	For different flat-head printers: Avery Ax, TTX, CAB, Datamax, Novexx
135	10	
165	10	

360 m Coated side inside FAR		
Width (mm)	Rolls/box	
38	30	
50	30	
64	30	
76	30	
90	20	
102	20	
110	20	
114	20	For different flat-head printers: Avery Ax, TTX, CAB, Datamax, Novexx
152	10	
165	10	

450 m Coated side inside UBI		
Width (mm)	Rolls/box	
38	24	
50	24	
60	24	
76	24	
85	16	
100	16	
110	16	
130	8	For different flat-head printers: Intermec EasyCoder, PD4, PD41, PD42, PM4i, PX4i, PX6i, PA30, Datamax, SATO CL
150	8	
165	8	
220	8	

450 m Coated side outside ZE2		
Width (mm)	Rolls/box	
40	24	
50	24	
60	24	
70	24	
80	16	
90	16	
100	16	
104	16	
110	16	
140	8	
154	8	For: Zebra ZT, Xi, S4M, S6M, Z4M, Z6M, ZM400, ZM600, Z4000, Z6000, 105 SL, TSC Mx, TTP-268M, ME-240
170	8	
220	8	

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04

Product Line "made to measure"

The Flexible Roll Production

From start to finish – we slit and wind, label and pack every thermal transfer ribbon according to your order. Widths vary from 12.7 mm to 1,000 mm, and lengths can go up to 1,400 m. The widths of jumbo rolls and finished ribbons determine the minimum quantity we can produce for you.

Here we would like to introduce only briefly the 45 available black ribbon qualities. For detailed information please request our data sheets or visit our website at **www.calor.de**.

We will be happy to advise you!

Your Benefits:

Individual Solutions
Even for difficult materials. Choose from 45 black qualities and a large number of colours (pages 14/15).

Order-Related Manufacture to Measure
Roll dimensions and designs are adapted to your application.

Branded Consumables for Increased Market Presence
We offer personalised roll leader, labels and packaging.

Qualities for Near-Edge Printers

N

Wax – The low-cost alternative for paper and cardboard

N 102 Sw / ecoNE
High-contrast print, high printing speeds

Wax/Resin – High resolution at highest printing speed

N 402 Sw / direct
High contrast and speed for direct printing

N 403 Sw / perfect
Perfect all-round properties

N 451 FG
Special quality for safety applications, green fluorescence under UV light

Resin – Very good resistance

N 501 Sw
High resistance against smearing and scratching

N 508 Sw
Good resistance against chemicals, also for flat-head printers

N 526 Sw
For difficult materials, steam-resistant

N 544 Sw / resistNE
Flexible and universally usable, sensitive

N 849 Sw
High resistance, only for special applications

Qualities for Flat-Head Printers

Wax – High-contrast, sensitive, low-cost, for paper and cardboard materials

T 143 Sw / brilliant
High contrast for jet-black print also on vellum

T 151 Sw / prima
High sensitivity and excellent resolution

T 152 Sw / ratio
Our low-cost bestseller!

T 153 Sw
Sensitive with special top-coat

T 154 Sw / brilliant+
Top quality with synthetic resins for better resistance and highest resolution

T 308 Sw
Premium wax+ quality for all surfaces

Wax/Resin – Universally usable, with higher mechanical resistance

T 414 Sw
Very flexible, high contrast, good resistance against chemicals

T 436 Sw
High resolution and a large range of applications

T 449 Sw
Premium quality with good all-round resistance, good on films

T 454 Sw
For difficult surfaces, high mechanical resistance

T 455 Sw / vario+
Flexible all-round quality, highly resistant against abrasion, resistant against brake fluid

T 456 Sw / ideal
Sensitive and universally usable, good resistance against oil and high temperatures

T 459 Sw / mix
Best price – of universal use

Resin – Resistant all-round qualities and special products for particular applications

T 506 Sw / resist
The best-seller with good all-round-properties

T 507 Sw
Very good on paper, low sensitivity, highly resistant against alcohol

T 518 Sw
All-round quality, good for paper

T 549 Sw
Very good chemical resistance, above all against fuel and brake fluid

T 555 Sw / resist+
Flexible, sensitive, high contrast on paper

T 580 Sw
For films in outdoor applications

T 649 Sw
For textile labels, resistant against washing, dry-cleaning and ironing

T 741 Sw
The specialist for heat-resistant print on paper labels

T 742 Sw
Extremely high resistance against organic solvents, only on selected materials

T 845 Sw
Highly resistant, for films and cards, very good chemical resistance, temperature-resistant

T 850 Sw
Highly resistant special quality, high contrast on films, low sensitivity

T 858 Sw
Special quality for PVC cards

T 860 Sw
Special quality of ultrahigh resistance, low sensitivity, for films and cards

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Product Line "special"

Solutions for special Applications

One focus of our product range is on thermal transfer ribbons in **special** qualities:

- Qualities for printing PVC cards, for mail franking systems and for sign printers for outdoor applications according to OEM specification
- Two-coloured ribbons developed specifically for a defined application
- Ribbons for security applications with green fluorescence under UV light
- Customer-specific special colours, etc.

Due to our long-standing experience with thermal transfer ribbons, we develop ribbon qualities according to your requirements – with particular properties for unusual applications. For label printing and other fields.

With a limited additional effort, we can adapt existing colours on the basis of the PANTONE® system according to customer-specific requirements – the minimum amount is smaller than you may think!

On the following page we would like to present some projects from recent years.

You determine today what we will produce tomorrow.

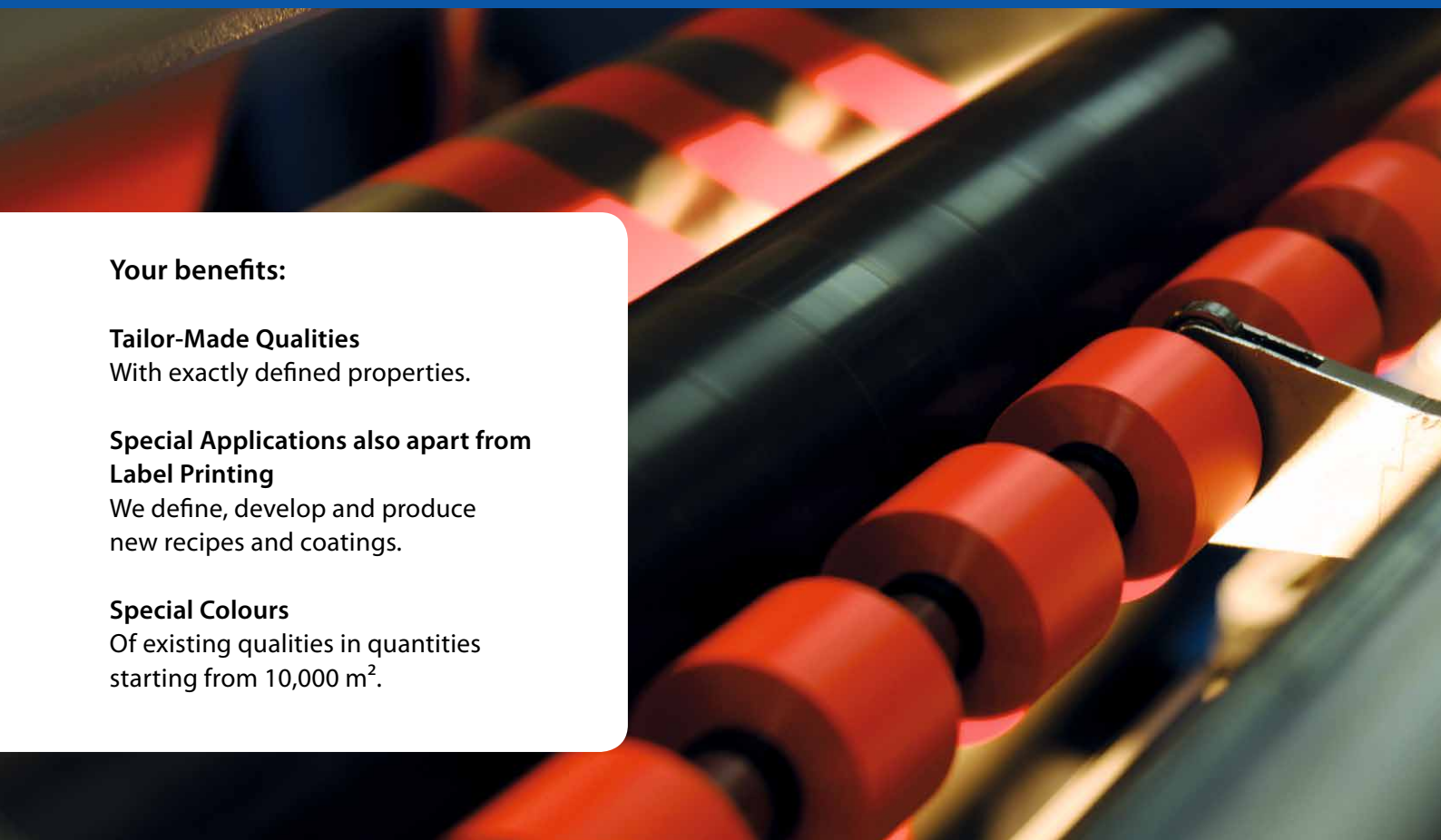## Your benefits:

Tailor-Made Qualities
With exactly defined properties.

Special Applications also apart from Label Printing
We define, develop and produce new recipes and coatings.

Special Colours
Of existing qualities in quantities starting from 10,000 m².

Know-how in Development and Coating

Type Plate Print in Grey

- Grey resin ribbon for different synthetic materials
- Prints on white and black labels
- Very high resolution and resistance
- Colour fulfils the specification of Asian electronics manufacturers

Fluorescent Colours

- Fluorescent thermal transfer ink
- Colour copy or scan clearly differs from the original

Brilliant Colours on Black Substrate

- A special pigment mixture makes it possible to print on a dark substrate
- Resin quality with high resistance

Two Colours

- Black for clear codes with high readability
- Orange as a signal colour can be printed simultaneously if necessary

Counterfeit Protection

- Black print for text and machine-readable codes
- Green fluorescence under UV light
- Copy protection for valuable documents, brand protection, etc.

Document Safety

- Two-coloured safety ribbon
- Dark print (here blue) for codes
- Fluorescent ink as a copy protection

UV-Resistant Sign Print

- Series of 5 colours in resin quality for outdoor use
- Especially UV-resistant pigments, tested according to DIN EN ISO 11341
- Ribbons in print width 490 mm for special sign printer

Identification in the Electronics Industry

- Highly resistant identification on different materials
- In a number of colours
- Also for special applications

Your Project

- We are looking forward to your enquiry for a special solution!

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06

The Colours

Now it gets colourful! – Choose between 88 tones

As with our black qualities, we also offer coloured thermal transfer ribbons in all quality grades. More than 80 colours are available in the qualities wax, wax/resin and resin. For flat-head and near-edge printers. In rolls with a width between 12.7 mm and 500 mm, for direct printing systems, label and card printers. Some of them are tested for food-safety or resistance against UV radiation. Thus we have the most comprehensive range of colours on the market!

The PANTONE® code provides a first orientation as to the tones you are looking for and those available in our standard range. By creating comparability, it helps you in finding the right quality.

And in case you should really not find what you are looking for, we will be happy to adapt our products for you and to develop special colours meeting your customers' specifications exactly.
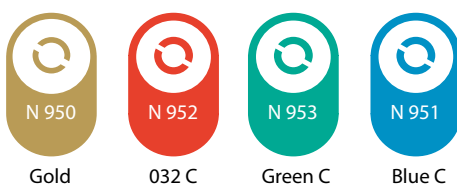
Colour Chart for Near-Edge Printers

N

Wax/Resin

N 930	N 458	N 415	N 416	N 427	N 492	N 911	N 910	N 418	N 491	N 912
White	White	877 C	Gold	Gold	Yellow C	158 C	185 C	186 C	Magenta C	220 C

N 902	N 916	N 921	N 920	N 446	N 471	N 490	N 900	N 466	N 901
259 U	1405 C	355 C	3278 C	3278 C	357 C	Cyan C	Reflex Blue C	Reflex Blue C	541 U

Resin

N 950	N 952	N 953	N 951
Gold	032 C	Green C	Blue C

Colour Chart for Flat-Head Printers

Wax

T 200	T 201	T 211	P 323 F	T 222	T 170	T 221	T 172	T 171	T 241	T 242
White	Cool Grey 9 C	874 C	184 C	Warm Red C	192 C	214 C	4695 C	3405 C	3415 C	3308 C

T 259	T 263	T 269
286 C	299 C	288 C

Wax/Resin

T 372	T 400	T 412	T 481	T 426	T 482	T 499	T 432	T 373	T 437	T 429
White	White	877 C	Silver	872 C	Gold	Yellow C	109 C	Orange 021	1788 C	192 C

T 438	T 370	T 494	T 465	T 431	T 445	T 440	T 444	T 442	T 493	T 462
199 C	208 C	219 C	2685 C	1545 C	Green C	355 C	356 C	357 C	Cyan C	Process Blue C

T 460	T 463	T 469
289 C	Reflex Blue C	287 C

Resin

Normal

T 505	T 575	T 500	T 578	T 571	T 572	T 573	T 570	T 561
White	White	424 C	431 C	032 C	Green C C	Cyan C	Blue C	294 C

Card Printing

T 504	T 525	T 512	T 511	T 520	T 521	T 540	T 542	T 562	T 574
White	White	877 C	871 C	186 C	186 C	3275 C	356 C	300 C	2747 C

Outdoor

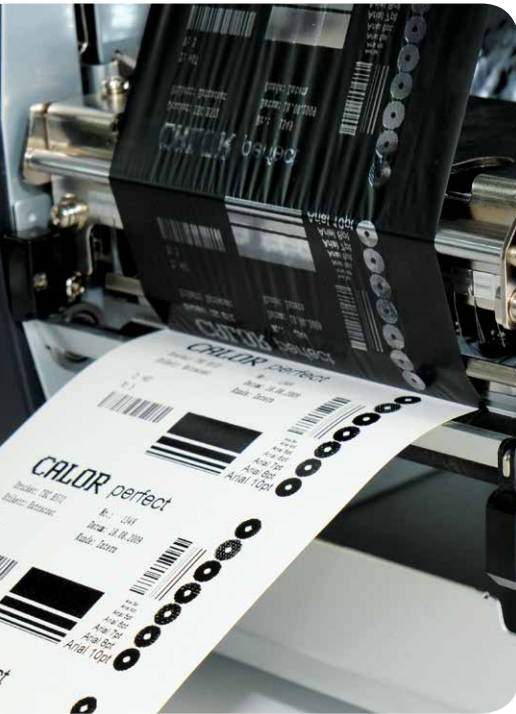|				
T 586	T 582	T 585	T 587	T 588
485 C	329 C	293 C	123 C	356 C

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07

The Thermal Transfer Printing Process

Since the mid-1980s, thermal transfer printing has developed into the leading process for variable identification and labelling in industry, commerce, logistics, and health care. In Europe, about 1 billion m² of thermal transfer ribbon are estimated to be used in 2015.
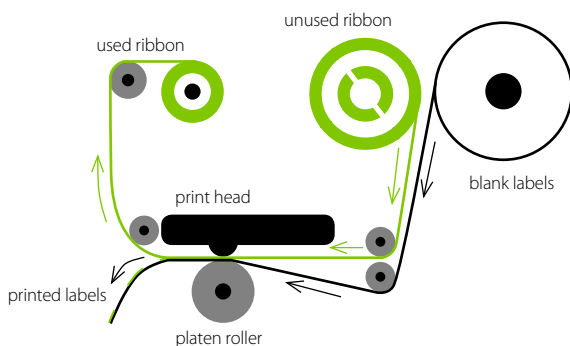
Printers

Today, thermal transfer printers have resolutions between 200 and 600 dpi and speeds up to 1,000 mm/s. They can be used in automatic print-and-apply systems for labels, as direct printers for packaging film or as flexible desktop printers.

Through the heat impulses of a computer-controlled print head, the meltable ink is transferred from a thin carrier film to the desired label stock. The advantage of this process: The print head covers the entire printing width, only label and inked ribbon are transported by a motor; the system is simple and therefore robust and occupies only little space.
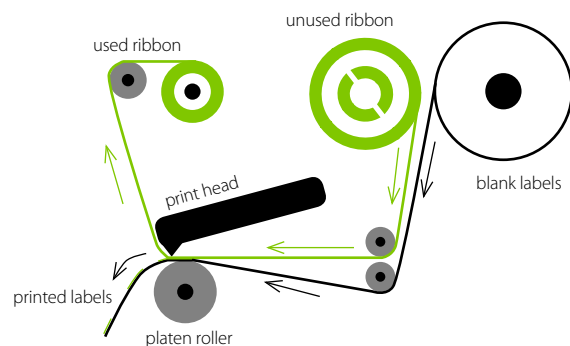
The Thermal Transfer Print Heads

used ribbon · unused ribbon · blank labels · print head · printed labels · platen roller

used ribbon · unused ribbon · blank labels · print head · printed labels · platen roller

Flat-Head Printers
The "flat-head" is the most frequently used print head: The dot-line is located about 5 to 10 millimetres away from the edge of the carrier plate. In most cases, the ribbon is deflected upwards by means of an additional roller. After the ink transfer, the separation of the media takes place with a certain spatial and temporal delay. The heat impulse is not very strong, but lasts relatively long.

Near-Edge Printers
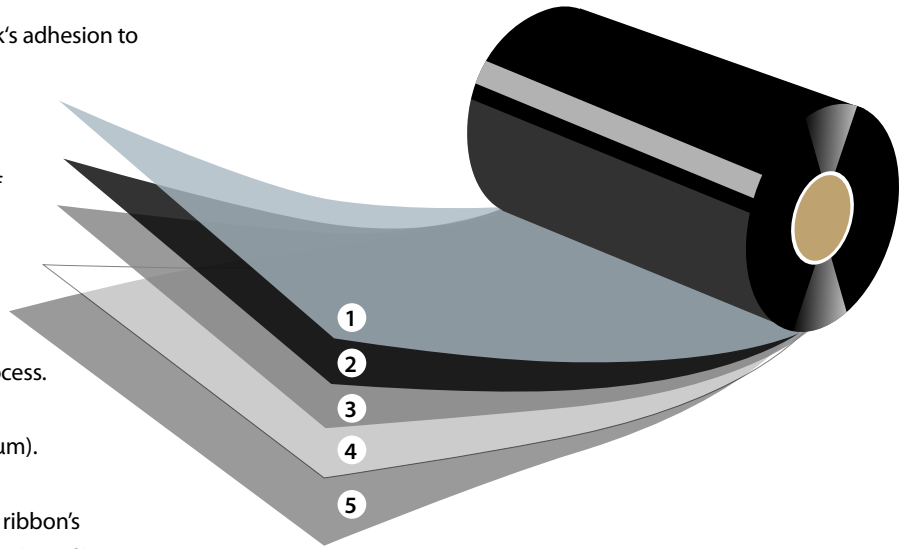In "near-edge" and "corner edge" print heads, the dot-line is located quite close to the edge of the ceramic carrier plate. Without any further deflection, the ribbon is guided upwards at a sharp angle. Ribbon and label are separated immediately after the ink transfer. The heat impulse is strong, but brief. "Near-edge" printers achieve their best results when used with specially matched thermal transfer ribbons.

The Thermal Transfer Ribbon

A thermal transfer ribbon consists of at least 3, but in most cases 4, 5 or more layers:

1. The **top-coat** (0.4 µm) determines the ink's adhesion to the label.

2. The colour of the **ink layer** (1– 4 µm) is created by means of pigments (in case of black, this is carbon black). The matrix consists of waxes and synthetic resins.

3. The **release layer** (0.4 µm) facilitates the ink's detachment during the printing process.

4. The **base film** is made of polyester (4.5 µm).

5. The **back coating** (0.2 µm) decreases the ribbon's friction on the print head and protects the base film from burning through.

The Ribbon Qualities

Various chemicals, like waxes, synthetic resins, pigments and additives and their respective percentages, as well as the ribbon's structure made up of different layers determine a thermal transfer ribbon's properties. Every ribbon quality has a back coating on the base film – the coated side has the following structure:

Product Group	Coating Method	Structure Coated Side	Properties
Wax	Hot-melt	Often just 1 relatively thick ink layer (3-4 µm)	High sensitivity and blackness, low resistance
Wax+	Often a combination of hot-melt and solvent	Usually 2 layers	Improved resistance
Wax/Resin	Solvent	3 layers	Medium resistance, high resolution
Resin	Solvent	3 layers, thin ink layer	High to extreme resistance

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Ribbons and Labels

Today, a large number of different ribbon qualities makes it possible to achieve durable optimum print results on numerous label materials. The print is monochrome; apart from black, a large range of colours is available. It is of vital importance to choose the right ribbon quality.

Combinations of Ribbon Qualities and Label Stock

Label Stock / Ribbon Quality	Wax ratio brilliant brilliant+	Wax/Resin mix vario+ ideal direct perfect	Resin resist resistNE
Vellum	suitable	suitable	unsuitable
Coated papers	suitable	suitable	limited suitability
PE (Polyethylene)	limited suitability	suitable	suitable
PP (Polypropylene)	unsuitable	suitable	suitable
PVC (Polyvinylchloride)	unsuitable	suitable	suitable
PS (Polystyrene)	unsuitable	limited suitability	suitable
PET (Polyester)	unsuitable	limited suitability	suitable
Coated synthetics	unsuitable	suitable	suitable

suitable   limited suitability   unsuitable

Print Quality and Resistance

It all starts with a high print quality: even small fonts, fine lines and graphics should be represented with high contrast and sharpness, barcodes and matrix codes have to be properly readable.

Besides, the printed label must be resistant to external influences that can occur in its field of use. We distinguish between physical resistance against smearing, scratching, erasure, UV radiation, and heat and resistance against chemicals, like e. g. cleansing agents, alcohol, fuel, oil and organic solvents.

Standards and Certificates

Depending on the application, label and ribbon have to fulfil numerous standards or to be approved for certain conditions, e. g. the contact with foodstuffs. And then there is, of course, the economic aspect: The ideal ribbon has to meet all the requirements and at the same time be as cheap as possible.

All our thermal transfer ribbons are free from heavy metals and substances mentioned on the SVHC list of the REACh regulation. They comply with the standards RoHS and WEE. Almost all of them are halogen-free. Numerous qualities have been approved by ISEGA for food contact. Some of our qualities are UL certified – exclusively in combination with defined label stock. Our sales department will be happy to give you detailed information!

You can trust our thermal transfer ribbons – they are manufactured by us according to strict quality criteria. Our quality management system is certified under ISO 9001:2008.

About CALOR | RTT

At Your Service for Several Decades Already

The two companies CALOR and REGMA Transfert Thermique (RTT) are an independent German-French group with 50 employees, which deals exclusively with the development, manufacture and sales of thermal transfer ribbons.

In Normandy in 1986, REGMA started coating thermal transfer ribbons – at that time still as a part of the Rhône-Poulenc group and under Japanese licence. The CALOR GmbH was founded as a specialised converter of TT ribbons in Baesweiler near Aachen in 1991 by Andreas Emonts-pohl. Together we have been successful in the market since 2002 – thanks to the good cooperation with our customers!

You Benefit from …

… Long-standing Know-how

Having been pioneers in thermal transfer technology in Europe, we place all our knowledge and experience at your disposal and are happy to advise you in a competent way – in sales and order fulfilment as well as in our technical support and, of course, in our management.

… the Comprehensive Product Range

You can choose from more than 100 black and coloured qualities and thus from the largest product range in the whole market. Three product lines make sure there is always a customer-oriented solution: **compact** standard products are supplied from stock at short notice on very attractive terms, any desired dimensions are **made to measure** and labelled individually, and we are quite willing to develop new **special** products for unusual applications.

… Certified Quality

At CALOR | RTT you only get very good products whose proven quality has been constantly high over many years. All of them comply with the European directives for dangerous ingredients. Many of our qualities are approved for contact with foodstuffs. Our processes are certified in accordance with DIN ISO 9001:2008.

… Impeccable Service

Sample rolls are ready for you to try out, and you will receive our order confirmation within 24 hours. Brochures and data sheets are at your disposal. In-stock articles from our **compact** range are shipped on the day of your order.

Short delivery times, individual advice based on your requirements and facilities, and personal customer care are all of great importance to us.

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