

# THERMAL TRANSFER RIBBONS

The right ribbon for every purpose



# **CALOR**

# The experts in thermal transfer ribbons

Since CALOR was founded in 1991 (in Baesweiler, close to Aachen in Germany) our passion has been thermal transfer ribbons. As a manufacturer and converter we supply products of outstanding characteristics to label manufacturers, system integrators and OEM's in Europe and all over the world.

Since the acquisition of REGMA (in Normandy, France) in 2002, we have been coating our own thermal transfer ribbon qualities and can develop new products with special properties. As experts in thermal transfer ribbons, we offer a comprehensive standard product range, which covers the majority

of applications for the variable printing of labels and packaging film. We offer more than 100 different colours and 5 quality levels. On the other hand, we can create new products and support you by developing solutions for the special applications of your customers. Benefit from our thirty years of experience in the market: Short delivery times, advantageous prices, individual commercial and technical advice and personal customer care are all aspects of great importance to us.

Take a look for yourself and get to know us. Sample rolls are ready for you to try out, brochures, data sheets and technical information are at your disposal.

# compact

# Product line "compact" The standard range

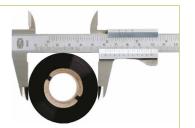
- Selected, proven qualities
- 100 standard dimension
- Short lead-times, bestsellers from stock
- Attractive prices



# made to measure

# Product line "made to measure" The flexible roll production

- A comprehensive product range with solutions also for difficult materials
- Ribbons made to order in all dimensions



# Product line "special" Solutions for special applications

- Ribbon qualities for card and sign printing, security printing, franking systems, ...
- The development of customised ribbon qualities and special colours



# vorld of colour

# The widest range of colours

- More than 100 different colours i
- 18 standard dimensions available in small quantities starting from 5 rolls



# PRODUCT RANGE

# Black thermal transfer ribbons





WAX/RE:

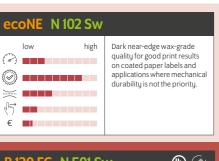
RESIN

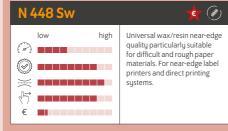


WAX











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UL UL-certified

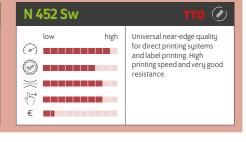
BS 5609-certified

Food packaging

Top price/performance ratio

TTO Thermal Transfer Overprint

on packaging film



Chemical resistance

Heat resistance

€ Price

Max. printing speed

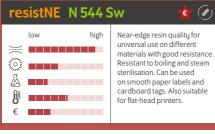
Printing quality

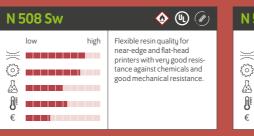
Smear resistance

Mechanical resistance

Flexibility











# **Coloured thermal transfer ribbons**

Flat-head



T170	
T263	

Quality	Pantone	Net width	Price group
T 170 Red	192 C	880 mm	5
T 171 Green	3405 C	880 mm	5
T 172 Brown	4695 C	880 mm	5
T 173 Green	376 C	680 mm	5
T 174 Blue	7462 C	680 mm	5
T 200 White	White	670 mm	30
T 201 Grey	Cool Gray 9 C	680 mm	10
T 211 Gold	874 C	660 mm	50
T 222 Orange	Warm Red C	680 mm	10
T 242 Green	3308C	680 mm	10
T 259 Blue	286 C	880 mm	5
T 263 Light Blue	299 C	680 mm	10
T 269 Dark Blue	288 C	680 mm	10

X/RESIN	T372	T400	T481	T426	T482
WA	T483	T 432	T373	T437	T438
	T371	T465	T431	T445	T440
	T444	T442	T493	T462	T463
	T460				

Quality	Pantone	Net width	Price	group
T 371 Bordeaux	208 C	680 mm	30	<b>(</b>
T 372 White	White	680 mm	55	
T 373 Orange	Orange 021	680 mm	30	
T 400 White	White	660 mm	30	
T 426 Gold	872 C	680 mm	50	
T 431 Dark Brown	1545 C	680 mm	30	
T 432 Yellow	109 C	680 mm	30	
T 437 Red	1788 C	680 mm	30	
T 438 Red	199 C	680 mm	30	$\Diamond$
T 440 Grass Green	355 C	675 mm	50	
T 442 Moss Green	357 C	660 mm	30	
T 444 Green	356 C	680 mm	30	
T 445 Green	Green C	680 mm	30	
T 460 Night Blue	289 C	660 mm	30	
T 462 Blue	Process Blue C	680 mm	30	
T 463 Royal Blue	Reflex Blue C	680 mm	30	
T 465 Violet	2685 C	680 mm	40	
T 481 Silver	Metal Silver	610 mm	75	
T 482 Gold	Metal Gold	610 mm	75	
T 483 Gold	Metal Gold	620 mm	75	
T 493 Cyan	Cyan C	680 mm	30	

T504 T539 T575 T5	557 1576
T577 T578 T527 T5	512 T514
T511 T510 T722 T7	20 T571
T520 T565 T567 T7	40 T540

Quality	Pantone	Net width	Price group
T 504 White	White	880 mm	60 <b>UL</b> 🕙
T 510 Gold	Metal Gold	880 mm	55
T 511 Gold	871 C	630 mm	80
T 512 Silver	877 C	640 mm	80
T 514 Silver	Metal Silver	880 mm	55
T 520 Red	186 C	880 mm	60
T 527 Grey	432 C	680 mm	45
T 539 White	White	660 mm	55
T 540 Green	3275 C	880 mm	60
T 557 White	White	640 mm	55
T 565 Red	186 C	680 mm	55
T 566 Blue	2935 C	680 mm	55
T 567 Green	354 C	680 mm	55

T572	T573	T570	T566	T760
T762				

$\rightarrow$	$\langle \rangle$ $\langle$				Quality	Pantone	Net width	Price	group
N 930	N 443	N 458	N 415	N 416	N 415 Metal Silver	877 C	660 mm	70	
$\longrightarrow$					N 416 Metal Gold	871 C	660 mm	70	
					N 427 Gold	872 C	680 mm	45	
					N 443 White	White	660 mm	50	
N 427	N 492	N 904	N 911	N 447	N 446 Green	3278 C	660 mm	20	
	<b>\</b>	<b>\</b>			N 447 Red	Warm Red	680 mm	20	
					N 458 White	White	980 mm	30	
					N 466 Blue	Reflex Blue C	660 mm	20	<b>(</b>
N 910	N 491	N 912	N 902	N 916	N 470 Green	354 C	660 mm	20	
					N 471 Green	357 C	680 mm	20	
					N 472 Blue	300 C	660 mm	20	
					N 490 Cyan	Cyan C	660 mm	20	<b>(</b>
N 921	N 470	N 920	N 446	N 471	N 491 Magenta	Magenta C	660 mm	20	<b>(</b>
					N 492 Yellow	Yellow C	660 mm	20	
					N 900 Blue	Reflex Blue C	680 mm	20	
					N 901 Blue	541 C	680 mm	20	
N 490	N 472	N 900	N 466	N 901	N 902 Violet	259 C	680 mm	20	<b>(</b>
					N 903 Blue	280 C	680 mm	20	
					N 904 Yellow	116 C	680 mm	20	
					N 910 Red	185 C	680 mm	20	
N 903					N 911 Orange	158 C	680 mm	20	<b>(</b>
					N 912 Bordeaux	220 C	680 mm	20	
					N 916 Brown	1405 C	680 mm	20	
					N 920 Green	3278 C	680 mm	20	

T 570 Blue

T 571 Red

T 572 Green

T 573 Cyan

T 575 White T 576 Grey

T 577 Grey

T 578 Grey

T 720 Red

T 722 Yellow

T 760 Blue

T 762 Blue

T 740 Light Green 356 C

N 921 Grass Green 355 C N 930 White White

Blue C

032 C

Green C

Cyan C

422 C

431 C

116 C

286 C

655 C

680 mm

880 mm

880 mm

880 mm

880 mm

880 mm

Grey/White\* 680 mm

40

40

40

40

40 🛕

40 🛕

40 🛕

40 🛕

40 🛕

40 🔷

N 956	N955	N 950	N 952	N953
N 951	N954			

Quality	Pantone	Net width	Price group
N 950 Gold	872 C	680 mm	50
N 951 Blue	Blue C	680 mm	40
N 952 Red	032 C	680 mm	40 🔷
N 953 Green	Green C	680 mm	40
N 954 Blue	281 C	680 mm	40
N 955 Grey	425 C	600 mm	40
N 956 Grey	Cool Grey 7	C 680 mm	40

680 mm

Red for

GHS labeling **UL-certified** 

Depending on the label material Developed for outdoor use

Compact standard articles available: minimum quantity 5 ribbons (standard dimensions on page 8-9) made to measure Roll productions made to measure: minimum quantity 200 m<sup>2</sup> Special qualities, no stock, will be coated for your order

Near-edge



PRODUCT LINE

# "special" For special applications

Due to our long-standing experience with thermal transfer ribbons, we can develop ribbon qualities to suit your specific requirements - that display particular properties for unusual applications. For label printing as well as for other applications.

At limited additional expense, we can adapt existing colours on the basis of the PANTONE system according to customer-specific requirements – the minimum quantity is smaller than you may think!



## **CARD PRINTING**

C/ II C I I I I I I I I I I I I I I I I	Quantat	i dilitori
- Special resin ribbons in black and	T 858 Sw	black
monochrome colours for TT card	T 524 We	white
printers exclusively for OEM customers	T 521 Ro	185 C
- The print has a high resistance against	T 542 Gr	356 C
smearing and scratching, rubbing,	T 562 Bl	300 C
sweat and chemicals	T 574 Bl	2747 C

# **COUNTERFEIT PROTECTION**

hermal transfer security ribbons
nelp protecting brands by using two
operating principles:
Moarly invisible print glares with cua

blue, yellow, green or red fluorescence under UV illumination

2) Black print glares with neon bright fluorescence under UV illumination

## Resin qualities for flat-head printers

Product	Print	UV-Light
T 865 SY	black	yellow
T 861 SY	transparent	yellow
T 863 TG	transparent	green
T 864 TR	transparent	red
T 866 TC	transparent	cyan-blue

# Wax/resin quality for near-edge printers

Product	Print	OV-LIGHT
N 451 FG	black	yellow-greei

# **FRANKING SYSTEMS**

- Ribbon qualities specially designed for printing on a wide variety and very rough paper materials used for envelopes - exclusively for franking system manufacturers

- 5 different colours in durable resin	
quality for outdoor labols and signs	

- Made with highly UV-resistant pigments and tested according to DIN EN ISO 11341

# **GREY AND WHITE**

- for high quality labels and nameplates
- near-edge printers

# **SPECIAL COLOURS**

pigments.

- on request

Product	Colour
P 322 Ro	Franking red
P 362 Bl	Franking blue
D 222 DE	Fluorescent red

# **OUTDOOR**

lifferent colours in durable resin	
ality for outdoor labels and signs	

- 6 different shades of grey
- 6 qualities in white with different properties

- In 2021, we have developed 4 resin qualities for outdoor use based on very UV-resistant

# **TWO COLOURS**

- Orange as a signal colour can be printed
- Other colours or width distributions
- High minimum order quantities

P363Bl Franking blue

erent colours in durable resin	T 720 Ro
y for outdoor labels and signs	T 722 Ge
with highly UV-resistant pigments	T 740 Gr

# **RESIN QUALITIES**

- mainly for flat-head, but also for

22109	,	Yellow
22108	I	Magenta
22101	(	Cyan
12006	I	Black

- Black for clear codes with high readability
- are possible

# T 743 Gr T 760 Bl T 762 Bl

Product

## Product Grey Pantone

T 52	7 Ga	432 C
T 57	6 Ga	Grey on black
T 57	7 Ga	422 C
T 578	8 Ga	431 C
N 95	5 Ga	425 C
N 95	6 Ga	Cool Greu 7 C

# Product (Laboratory number) Pantone

22109	Yellow
22108	Magenta
22101	Cyan
12006	Black

# Colour 1 Colour 2 Max. Width P 324 BR N 914 OS 68





多伦110kV变电站

10kV951善因线

龙城分支:010#

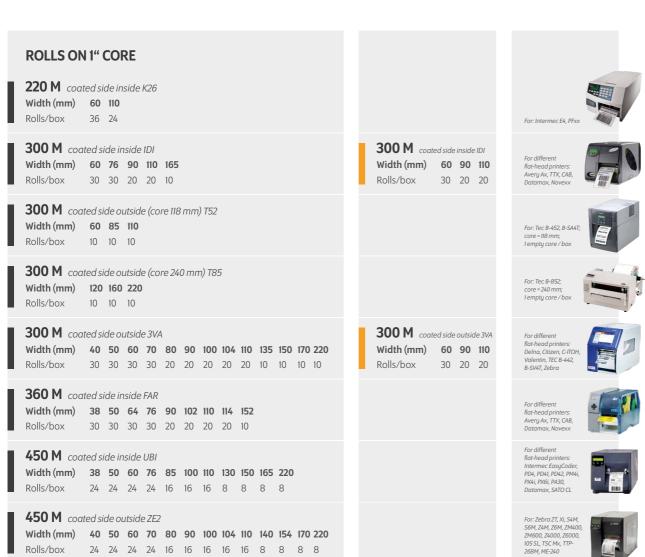


# **63 STANDARD DIMENSIONS**

# For flat-head printers

BLACK MOQ:1box		
110220 011		
Width (mm)	d side outside V08 <b>55 65 85 110</b> 6 6 6 6	<b>74 M</b> quality ratio  Width (mm) 55 65 85 110  Rolls/box 44 44 44 44







PRODUCT LINE

# "compact" The standard articles

For all standard compact qualities we propose the following compact standard ribbons dimensions, sorted by length and coated side (inside first). Within a ribbon type you will find the standard widths and the corresponding packaging unit as well as a list of some common printers that can operate using this ribbon type. Special widths of a given 1" core roll type are available at an extra charge for order quantities of 50 rolls upwards.

## 35 STANDARD DIMENSIONS

For near-edge printers		
BLACK MOQ:1box	COLOURS MOQ: 5 ribbons	
	<b>300 M</b> coated side inside 1DI Width (mm) 55 60 90 110 Rolls/box 30 30 20 20	
<b>300 M</b> coated side outside 3VA <b>Width (mm) 50 90 110 135 150</b> Rolls/box 30 20 20 10 10	<b>300 M</b> coated side outside 3VA <b>Width (mm) 55 60 90 110</b> Rolls/box 30 30 20 20	
<b>300 M</b> coated side outside (core 229 mm) T87 <b>Width (mm)</b> 160 220  Rolls/box 10 10		
<b>450 M</b> coated side inside K01 <b>Width (mm) 55 110</b> Rolls/box 32 16		
600 M coated side inside SMK Width (mm) 30 55 Rolls/box 25 20		
<b>600 M</b> coated side inside NOV <b>Width (mm) 55 80 110 130 165</b> Rolls/box 20 10 10 5 5	600 M coated side inside NOV Width (mm) 55 84 110 Rolls/box 20 10 10	
<b>600 M</b> coated side outside T57         Width (mm)       55       70       80       85       90       102       110       114       135         Rolls/box       20       10       10       10       10       10       10       10       5	<b>600 M</b> coated side outside T57 Width (mm) 55 84 110 Rolls/box 20 10 10	
900 M coated side inside SM9 Width (mm) 55 Rolls/box 12		
1000 M coated side outside SOD Width (mm) 55 Rolls/box 12		

# **PRINTERS** Overview



















## Locations

Baesweiler (Germany) and Arques la Bataille (France)

## Staff

50 employees

# Production quantity

> 100.000 ribbons/month

## Specific equipment

7 high-speed converting machines

## Stock

Ø 20.000 standard ribbons ready to ship

# ur Profile

# CALOR

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# Certificates

### ISO 9001:2015



Our processes and quality management system are certified according to the latest version of 2015.

### RoHS 3



All our qualities meet the limiting values of the European Directive

## DEACH SVHC



None of our qualities contain substances included in the SVHC list dated July 2019.

# ( See )

# Food packaging

Numerous qualities are suitable for printing food packaging.



## UL

Some qualities are UL/CSA certified on particular label stock.

## BS 5609



to BS 5609 Section III (Seawater resistance) for the labelling of chemicals on particular label stock.

# REGMA

Regma Transfert Thermique SAS 6, Rue Verdier Monetti  $\cdot$  F-76880 Arques-la-Bataille (France) Phone +33 (0) 235 04 86 65  $\cdot$  Fax +33 (0) 235 04 86 70 info@regmatt.com  $\cdot$  www.regmatt.com