

THE ULTIMATE TTR RIBBON SELECTION GUIDE: FIND YOUR PERFECT MATCH



START HERE:

SELECT YOUR PRINTER HARDWARE & APPLICATION

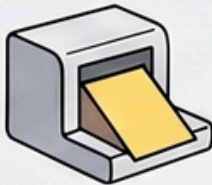
**STEP 1:
IDENTIFY
YOUR PRINT
HEAD TYPE**



A

FLAT HEAD
(Flat Head)

Most Standard Industrial Printers
(e.g., Standard Logistics, Retail)



E

NEAR-EDGE

High-Speed Packaging Lines
(e.g., Flexible Packaging, High Throughput)

**STEP 2:
SELECT YOUR
LABEL MATERIAL**



PAPER
(Matte/Gloss)

Standard Indoor Use. Choosing wrong ink
(e.g., wax on plastic) results in smearing.



SYNTHETIC
(PET/PE/PP)

Requires scratch, heat, and
chemical resistance.



TEXTILE
(Nylon/PET)

Germent Washing/Ironing.
Requires extreme durability.

**STEP 3:
DEFINE
ENVIRONMENTAL &
DURABILITY NEEDS**



STANDARD LOGISTICS / RETAIL
Wax ribbons for standard indoor use.



SCRATCH RESISTANT / INDUSTRIAL
Wax-Resin for scratch resistance.



HIGH HEAT / CHEMICAL / OUTDOOR
Resin for extreme heat and chemical
protection (Up to 250°C).



GARMENT WASHING / IRONING
Resin for garment durability.

**RANKED
SOLUTIONS:
YOUR
PERFECT
RIBBON
MATCH**



PAPER (Matte/Gloss)
+ Standard Logistics / Retail

1. EDR721
(Diamond Wax)

2. EGR521
(Graphite Wax)

3. ECR321
(Carbon Wax)



SYNTHETIC (PET/PE/PP)
+ Scratch Resistant / Industrial

1. EDR745
(Diamond Mix Ultra)

2. EGR541
(Graphite Mix)

3. ECR341
(Carbon Mix)



SYNTHETIC (PET/PE/PP)
+ High Heat / Chemical / Outdoor

- 1. EDR763**
(Diamond Resin CR - °Up to 250°C°)
- 2. EDR762**
(Diamond Resin CX)
- 3. EDR761**
(Diamond Resin SP)
- 4. EGR561**
(Graphite Resin)
- 5. ECR361**
(Carbon Resin)



PAPER/SYNTHETIC
+ High-Speed Flexible Packaging

1. EDR742
(Diamond Mix ED)

2. EGR542
(Graphite Mix Pack)

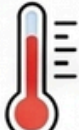
3. Textile LE
(Resin)



SYNTHETIC (PET/PE/PP)
+ Extreme Durability

1. EGR563
(Graphite Resin ED)

1. ECR381
(Carbon Hotpack)



THERMAL RESISTANCE
Standard Woc (EGR321) foils at
60°C, Specialty Resin (EDR763)
maintains integrity up to 350°C.



PRINT SPEED
High-speed packaging ribbons
like EGR342 designed for extreme
velocities (Up to 32 IPS).

SPECIALTY APPLICATIONS & COLORS

PANTONE MIX BLUE APRSB
(Flat Head)
Wax-resin for high-quality blux test
and graphics on paper or PP/PET.

WHITE THERMAL SELECTION
(Various Heads)
EPR968 (Flat Head Resin, Chemical
Resistance), EPR969 (Edge Resin,
High-Speed White Test), or
EPR969 (Hotpack, Direct Marking).

Group	Product Name	Ink Type	Printer Head Type	Color	Recommended Materials	Special Features
Diamond	DIAMOND RESIN SP EDR761	Resin	Flat head	Black	PET, PVC, PP, PE, PA	Excellent scratch and smudge resistance, antistatic formula, high chemical resistance, high temperature resistance, suitable for high-resolution and fine prints
Diamond	DIAMOND RESIN CX EDR762	Resin	Flat head	Black	PET, PVC, PP, PE, PA	Maximum abrasion resistance, smudge and scratch resistance, high-speed printing up to 8 IPS, chemical resistance, high temperature resistance (up to 220°C), sharp printing of small fonts and 2D codes
Diamond	DIAMOND RESIN CR EDR763	Resin	Flat head	Black	PET, PVC, PA, PI	Maximum abrasion resistance, antistatic formula, deep black graphics, chemical resistance, very high temperature resistance (up to 250°C), UL/CSA certified on specific materials, smudge and scratch resistant
Diamond	PANTONE RESIN CR WHITE EPR968	Resin	Flat head	White	PET, PVC, PA	High scratch and smudge resistance, high-speed printing, high print quality, chemical resistance (GHS), machine and equipment markings
Diamond	TEXTILE LE	Resin	Flat head	Black	Nylon, PET, PE, PP, PVC	High abrasion resistance even at 150°C, smudge-proof during ironing, resistant to washing and dry cleaning, suitable for textile inserts
Diamond	PANTONE RESIN ED WHITE	Resin	Near-edge	White	PET, PE, PP, Synthetic materials	Smudge resistance, high print speed (10 IPS), excellent print quality for barcodes, graphics, and very small text, thermal resistance up to 180°C
Diamond	DIAMOND MIX ULTRA EDR745	Wax-Resin	Flat head	Black	Paper (matte, coated, glossy), PP, PET, PE	Super Premium, high weather, scratch and chemical resistance, thermal resistance up to 120°C, high abrasion resistance, suitable for fine characters
Diamond	DIAMOND ECO WR	Wax-Resin	Flat head	Black	Matte paper, coated paper, glossy paper, PP, PET, PE	Smudge and scratch resistance, high-speed printing (up to 12 IPS), excellent print quality for normal and inverted barcodes and small fonts, UL certified
Diamond	DIAMOND MIX PREMIUM	Wax-Resin	Flat head	Black	Matte paper, coated paper, glossy paper, PET, PE, PP, Synthetic materials	Smudge resistance, low energy consumption, high speed (up to 15 IPS), high quality printing for small characters and graphics, resistant to mechanical damage
Diamond	DIAMOND MIX PRO	Wax-Resin	Flat head	Black	Paper (matte, coated, glossy), PET, PE, PP	Deep black graphics, high-speed printing up to 10 IPS, resistant to mechanical damage, low energy consumption, good smudge resistance, suitable for fine fonts

Group	Product Name	Ink Type	Printer Head Type	Color	Recommended Materials	Special Features
Diamond	DIAMOND MIX ED EDR742	Wax-Resin	Near-edge	Black	Matte paper, coated paper, glossy paper, PET, PE, PP	High durability, mechanical damage resistance, print speeds up to 24 IPS, deep black graphics, suitable for fine fonts
Diamond	EDR721 DIAMOND WAX STANDARD	Wax	Flat head	Black	Paper (matte, coated, glossy)	Versatile ribbon, high performance, resin reinforced, deep black, anti-static formula to protect the print head, high print speed (up to 14 IPS)
Graphite	GRAPHITE RESIN EGR561	Resin	Flat head	Black	PET, PE, PP	Sharp and clear printing, excellent abrasion resistance, chemical resistance, outdoor exposure resistance, antistatic formula, printhead protection, smudge resistance (200 cycles dry/wet), high heat resistance (300°C)
Graphite	EGR563	Resin	Near-edge	Black	PET, PE, PP	Excellent smudge resistance, high speed printing, suitable for very small text and graphics, UL certified on specific materials
Graphite	GRAPHITE RESIN TX	Resin	Flat head or Near-edge	Black	Nylon, Satin, Polyester	Designed for textile label printing, high durability throughout product life cycle, heat resistance up to 180°C, high print quality for small characters (100%) and 2D codes (98%), smudge resistance
Graphite	EGR541	Wax-Resin	Flat head	Black	Matte paper, coated paper, glossy paper, PET, PE, PP	Good scratch resistance, high print quality, wide range of materials, smudge resistance, suitable for small characters
Graphite	APR5B PANTONE MIX BLUE	Wax-Resin	Flat head	Blue (Pantone 286 C)	Matte paper, coated paper, glossy paper, PP, PET	Good print quality, low printing cost, exceptional text and graphics quality, maximum print speed 12 IPS, good value for money
Graphite	PANTONE HOTPACK WHITE EPR989	Wax-Resin	Hot stamp	White	Paper, PVC, PET, PA	High-speed printing, resistance to abrasion, scratches, moisture, and low temperatures; low printing temperature reduces energy consumption; high print quality
Graphite	EGR542 Graphite Mix Pack	Wax-Resin	Near-edge	Black	PET, PE, PP	Antistatic formula, printing speed up to 32 IPS, deep black, scratch resistance, durable, anti-static printhead protection, smudge resistance (dry/wet 200 cycles), thermal resistance up to 100°C
Graphite	PANTONE MIX PACK WHITE EPR949	Wax-Resin	Near-edge	White	Matte paper, coated paper, glossy paper, PP, PET	Low energy consumption, high quality prints, suitable for short-term and standard labels

Group	Product Name	Ink Type	Printer Head Type	Color	Recommended Materials	Special Features
Graphite	EGR521	Wax	Flat head	Black	Paper (matte, coated, glossy)	Low energy consumption, high quality printing, excellent blackness, max speed 10 IPS, suitable for standard and short-term labels
Carbon	ECR361	Resin	Flat head	Black	PET, PE, PP	High abrasion resistance, resistance to moisture and sunlight, suitable for outdoor use, scratch resistance, high temperature resistance (up to 170°C), smudge resistance
Carbon	TEXTILE LE COLOR	Resin	Flat head	Black	Nylon, PET, PE, PP, PVC	Abrasion resistance, heat resistance (150°C), smudge resistance during ironing, resistant to washing and dry cleaning, suitable for textile inserts
Carbon	CARBON HOTPACK ECR381	Wax-Resin	Hot stamp	Black	Paper, PVC, PET, PA	High speed printing, smudge and scratch resistance, moisture and low temperature resistance, low printing temperature
Carbon	ECR341 CARBON MIX	Wax-Resin	Flat head	Black	Paper (matte, coated, glossy), PET, PE, PP	Antistatic ink formula, low energy consumption, scratch resistant, smudge resistant, high versatility, high print quality for small characters and 2D codes
Carbon	ECR321	Wax	Flat head	Black	Paper (matte, coated, glossy)	Economical, high sensitivity (low energy use), increases printhead life, good print quality, high speed (up to 16 IPS), smudge resistance (up to 70 cycles dry 0.91 kg)