

XPERT RESISTANCE ■ ■ ■

SmartDate Xpert Ribbons offer the best rub resistance in the market, even in the most challenging applications.

TRUE RESIN RIBBONS

Choose from three ribbon grades formulated specifically for your application needs. The code will withstand solvents, oil, abrasion and/or heat. It can resist extreme temperatures of up to 250 °C.



XPERT PERFORMANCE ■ ■ ■

High definition codes at high speeds.

HIGH QUALITY CODES TO ENHANCE PACKAGING DESIGN

Ensure ultra sharp text, logos and high density graphics including 2D codes.

MAXIMIZE PRODUCT THROUGHPUT

Achieve speed up to 350 mm/second when used on the SmartDate X60.

FLEXIBLE FOR FUTURE CODING NEEDS

Usable on all types of flexible packaging, SmartDate Xpert Ribbons are ideal for your evolving packaging needs.



XPERT SOLUTION ■ ■ ■

Formulated and engineered to make the best of your SmartDate coders.

MARKEM-IMAJE CERTIFIED

Make the best of your SmartDate coders and benefit from all product warranties*.

100% COMPLIANT

Fit for even the most stringent health and food regulations.

100% SAFE

No specific care required for usage and manipulation, no operator protection needed.

100% COMPATIBLE WITH EQUIPMENT RIBBON SAVING MODE

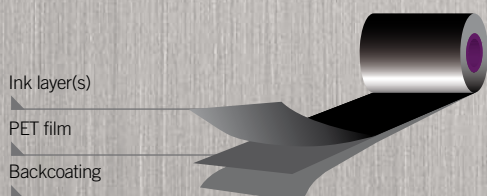
Optimized ribbon usage for less waste.



*See conditions defined by Markem-Imaje.

RIBBON SPECIFICATIONS

- ▶ Ribbon length up to 800 m.
A variety of ribbons widths for all machine variants.
- ▶ Backcoating:
Silicon based.
Friction coefficient: $K_d < 0.2$.
- ▶ PET film:
Thickness: $4,5 \mu\text{m}$.
Tearing resistance: $> 220 \text{ N/mm}^2$ (MD).
- ▶ Ink:
Resin.
Melting point: $80 \text{ }^\circ\text{C}$
(Manufacturer procedure).
- ▶ Ribbon:
Thickness: $< 9 \mu\text{m}$.
The ribbon is anti static build-up treated.



CERTIFICATIONS

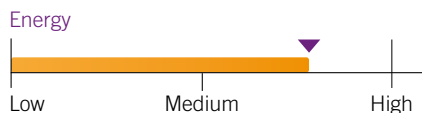
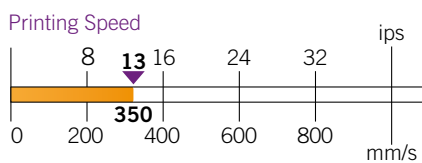
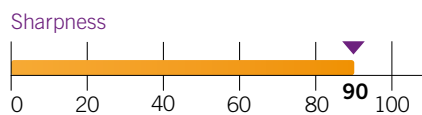
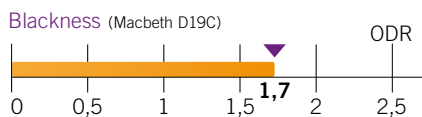
- ▶ Food contact: 1935/2004/EC and FDA.
- ▶ Heavy metals: 2011/65/EC (RoHS).
- ▶ REACH: Ribbons are free from the Substances of Very High Concern (SVHC).
- ▶ California Proposition 65.
- ▶ Halogen-free.

Contact us for all other regulations linked to product compliance with toxicity, waste treatment, banned components, packaging, etc.

STORAGE AND USE

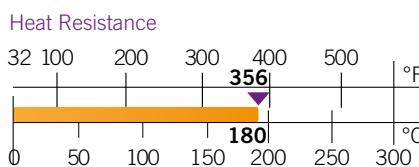
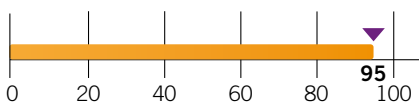
- ▶ Storage: $5\text{-}35 \text{ }^\circ\text{C}$ ($40\text{-}95 \text{ }^\circ\text{F}$), 20-80% humidity rate.
No shelf life in normal recommended storage conditions.
- ▶ Conditions of use:
Do not open with a blade.
Do not exert pressure on ribbon roll.
Before use, we recommend storing the ribbon at average temperature ($20 \text{ }^\circ\text{C}$) for 24 h.

PRINTING

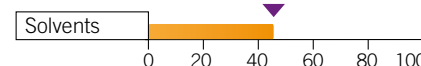
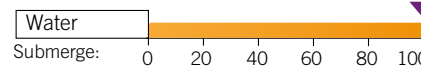


RESISTANCE

Mechanical Resistance
Crockmeter, 680 g/cm^2 .
For reference only printout still visible after 200 cycles.



Other Resistances



	Width	Length
For SmartDate X40 / X60	$\leq 55\text{mm}$	800m
	$> 55 \text{ mm}$	600m

For legacy printers see family datasheet.

We reserve the right to amend the design and/or specifications of our products without notice.

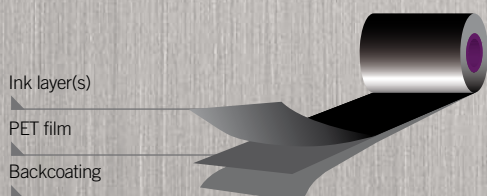
Markem-Imaje
Global Sales & Marketing Division
9, rue Gaspard Monge
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26501 Bourg-lès-Valence Cedex – France
Tél. : +33 (0) 4 75 75 55 00
Fax : +33 (0) 4 75 82 98 10



To learn more, visit www.markem-imaje.com

RIBBON SPECIFICATIONS

- ▶ Ribbon lengths up to 650 m (depending on colors).
A variety of ribbons widths for all machine variants.
- ▶ Backcoating:
Silicon based.
Friction coefficient: $K_d < 0.2$.
- ▶ PET film:
Thickness: 4,5 μm .
Tearing resistance: $> 220 \text{ N/mm}^2$ (MD).
- ▶ Ink:
Resin.
Melting point: 85 °C
(Manufacturer procedure).
- ▶ Ribbon:
Thickness: $< 11 \mu\text{m}$.
The ribbon is anti static build-up treated.



CERTIFICATIONS

- ▶ Food contact: 1935/2004/EC and FDA.
 - ▶ Heavy metals: 2011/65/EC (RoHS).
 - ▶ REACH: Ribbons are free from the Substances of Very High Concern (SVHC).
 - ▶ California Proposition 65.
 - ▶ Halogen-free (depending on colors).
- Contact us for all other regulations linked to product compliance with toxicity, waste treatment, banned components, packaging, etc.

STORAGE AND USE

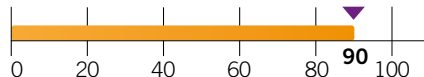
- ▶ Storage: 5-35 °C (40-95 °F), 20-80% humidity rate.
No shelf life in normal recommended storage conditions.
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Before use, we recommend storing the ribbon at average temperature (20 °C) for 24 h.

PRINTING

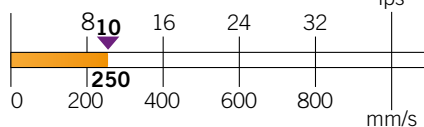
Pantone®

- White
- Green C
- 286 C
- 192 C

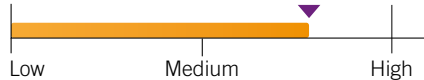
Sharpness



Printing Speed



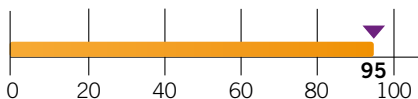
Energy



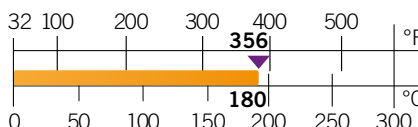
RESISTANCE

Mechanical Resistance

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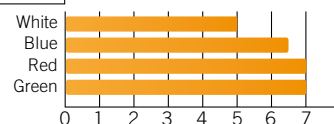


Heat Resistance



Other Resistances

Light fastness



Water

Submerge: 0 20 40 60 80 100

Solvents

0 20 40 60 80 100

	Width	Length
For SmartDate X40 / X60	≤ 55mm	600m: 650m:
	> 55 mm	450m:

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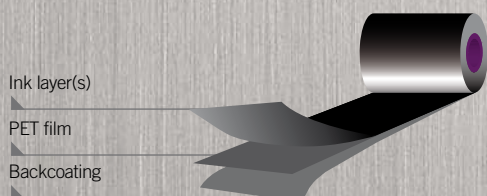
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Thickness: 4,5 μm .
Tearing resistance: $> 220 \text{ N/mm}^2$ (MD).
- ▶ Ink:
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Melting point: 85 °C
(Manufacturer procedure).
- ▶ Ribbon:
Thickness (black): $< 8 \mu\text{m}$.
The ribbon is anti static build-up treated.



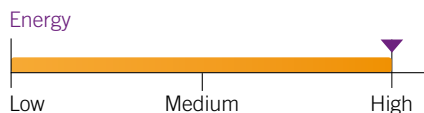
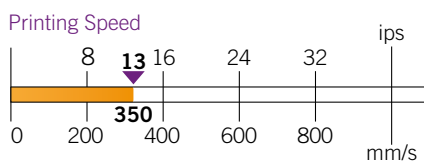
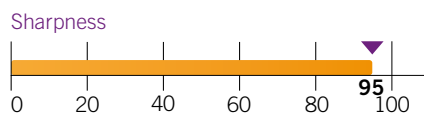
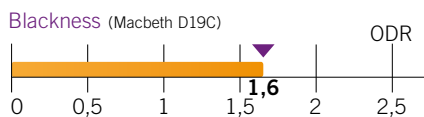
CERTIFICATIONS

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 - ▶ REACH: Ribbons are free from the Substances of Very High Concern (SVHC).
 - ▶ California Proposition 65.
 - ▶ Halogen-free.
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STORAGE AND USE

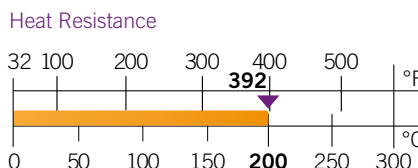
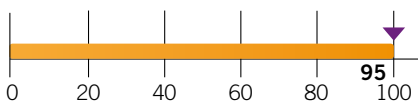
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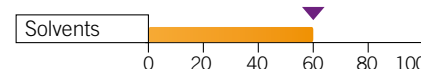
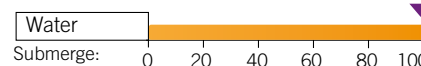


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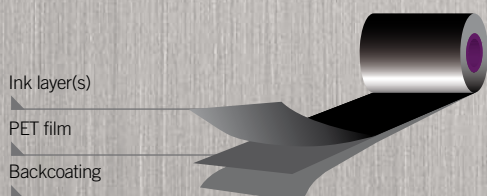
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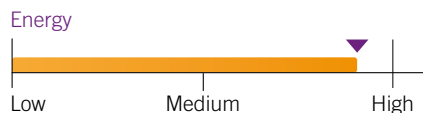
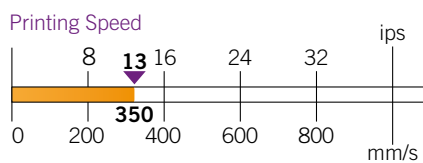
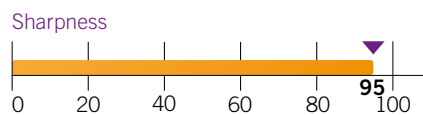
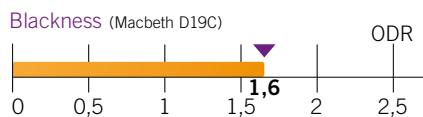
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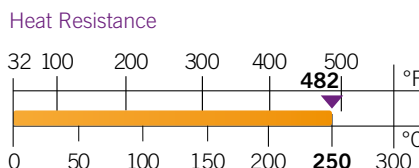
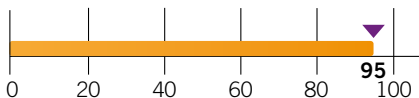
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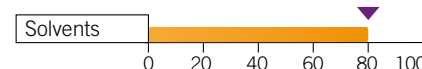
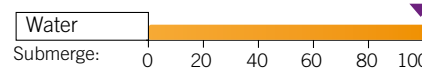


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