



Paliotol® Yellow K 1750

Relaunch Oct.2016

 **BASF**
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- Technical performance and main features
- Coloring efficiency comparison
- Summary

Paliotol® Yellow K 1750

Product at a Glance



Product Positioning of Paliotol® Yellow K 1750 :

- It is [food contact](#) compliant
- It is [highly color efficient](#),
- It is a mid red shade yellow for [indoor](#) Polyolefins and PVC applications
- It is a [halogen free](#) pigment.

Technical Positioning

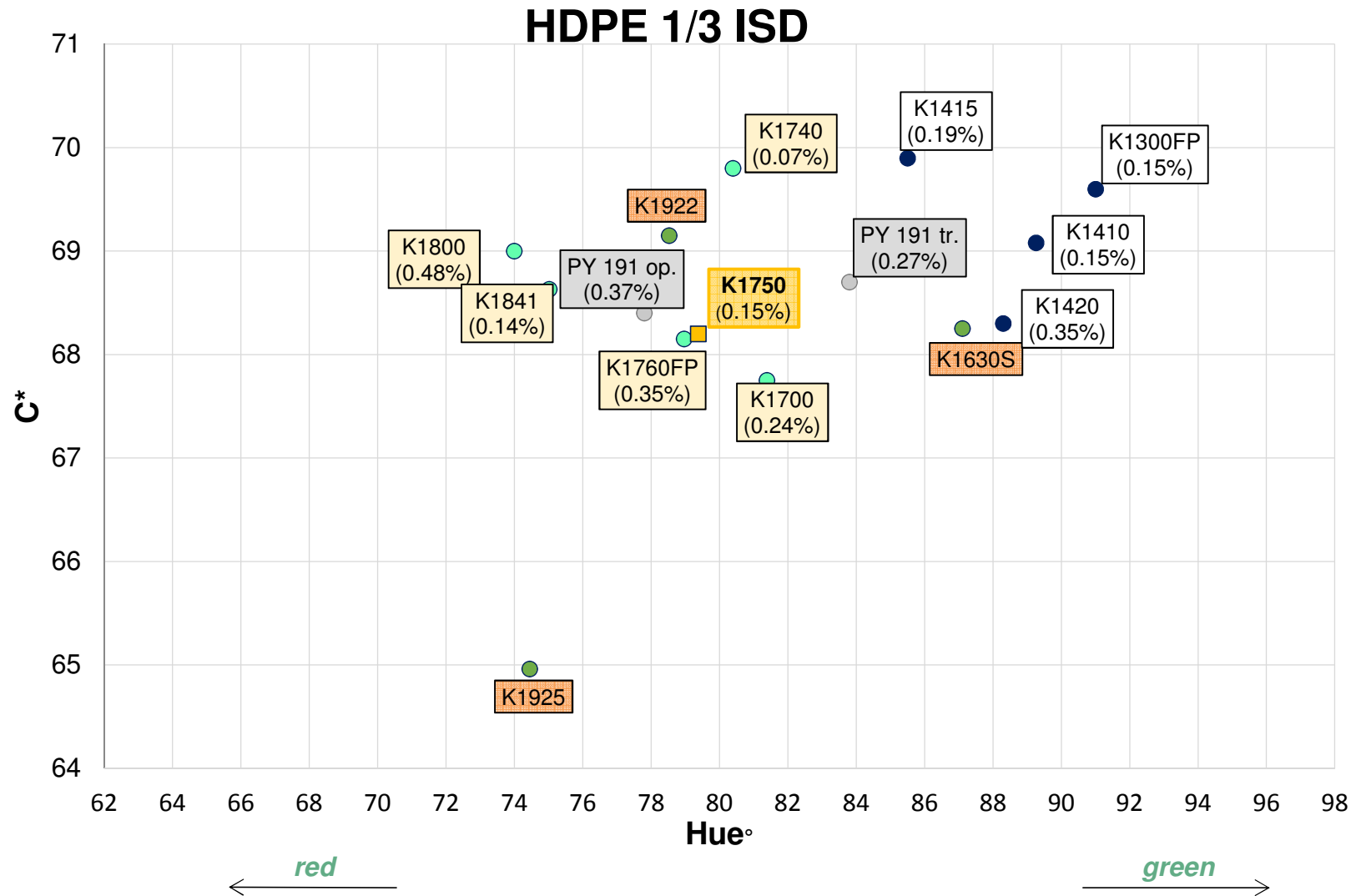
- Color efficient red shade Yellow
- Opaque, Strong and Saturated
- Does not exhibit bleeding in water
- Excellent heat stability and non warping in HDPE (280°C)

Main applications

- Indoor PO, PVC and Rubber
- Potential use in styrenics
- Sensitive applications

Paliotol® Yellow K 1750

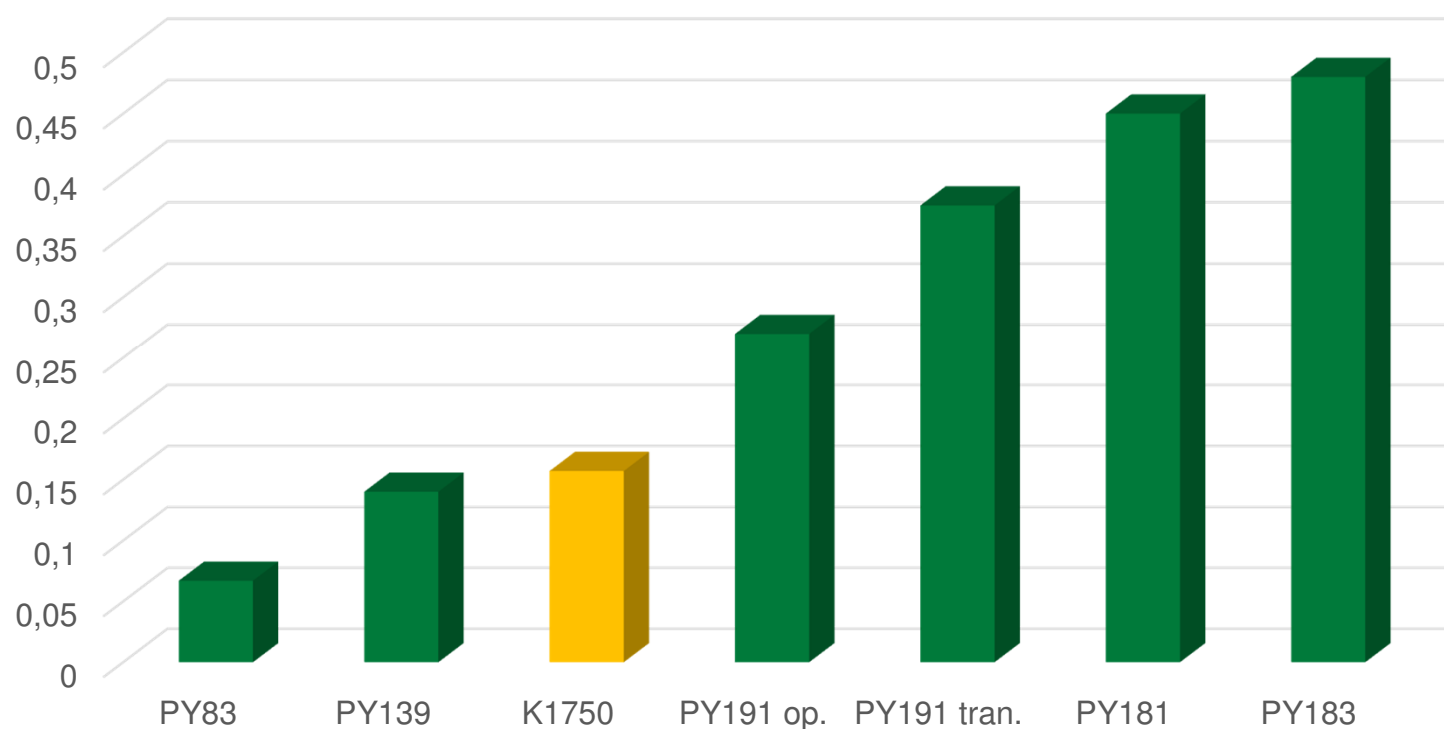
Positioning in HDPE (1/3 ISD)



Paliotol® Yellow K 1750

Ranking of Color Strength in HDPE (1/3 ISD)

1/3 ISD concentration %

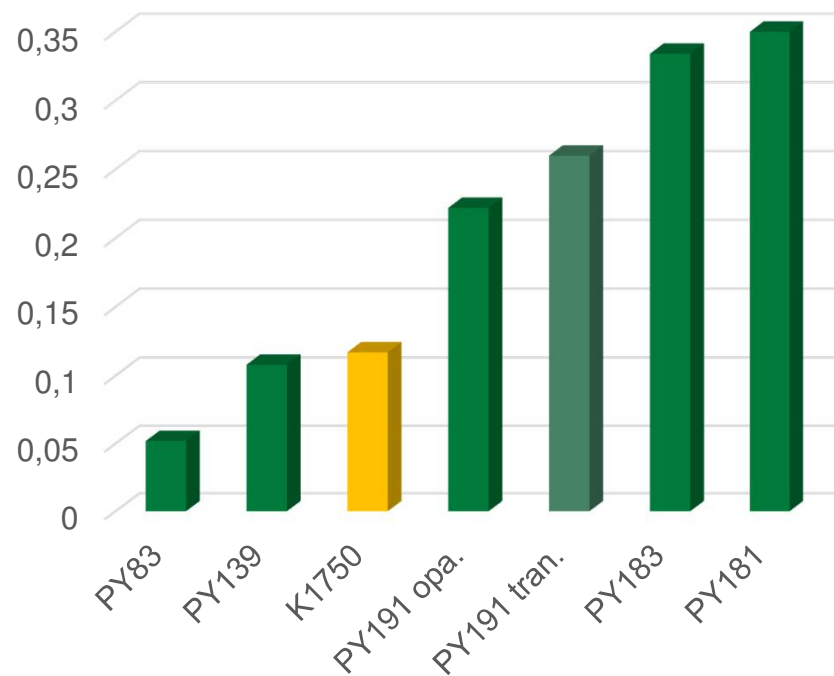


→ Most color efficient redish yellow except PY139

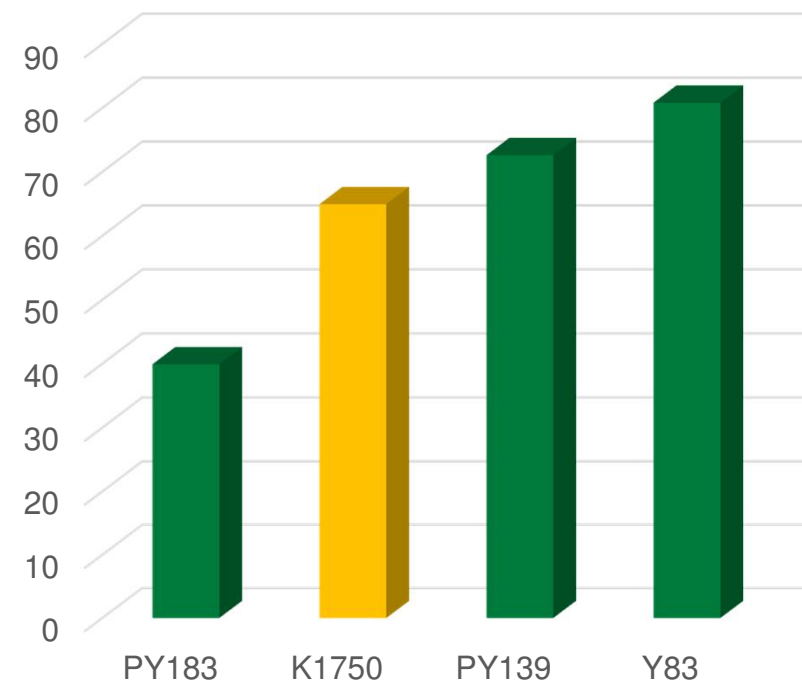
Paliotol® Yellow K1750

Color Strength & Transparency in PVC

1/3 ISD Concentration %



1/3 Full Shade contrast over B&W



→ K 1750 is unique combination of opacity and strength

Paliotol® Yellow K 1750

Water Bleeding vs. Alternative Pigments

■ Technical Features - Water Bleeding



PY 191

PY 191:1

K 1750

PY 34

PY 34

Note: Laboratory «static» test!
10% LDPE MB 24 hrs in water at room temperature



PY 183

Launch quality



Paliotol® Yellow K 1750

Paliotol® Yellow K 1750

Food Contact Compliance Status

- K 1750 can already be used in sensitive applications in Europe with compliance to
 - Article 3 of Regulation (EC) 1935/2004
 - Regulation EU 10/2011
 - AP(89)
 - BfR IX (published October 2015)
 - Italy: Decreto Ministeriale 21/3/73
 - Spain: Real Decreto 847/2011, June 17
- K 1750 had been submitted to FCN and GB 9685

Food Contact Certificate

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Product: Paliotol® Yellow K 1750

Revision: 01.03.2016 Valid for Article No 50427838, 50427840 and 50427851 Version: 6.0

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E-Mail: pigments.safety@basf.com

European Union

The product is in accordance with the Regulation (EC) No. 1935/2004 of October 27th 2004 in so far as:

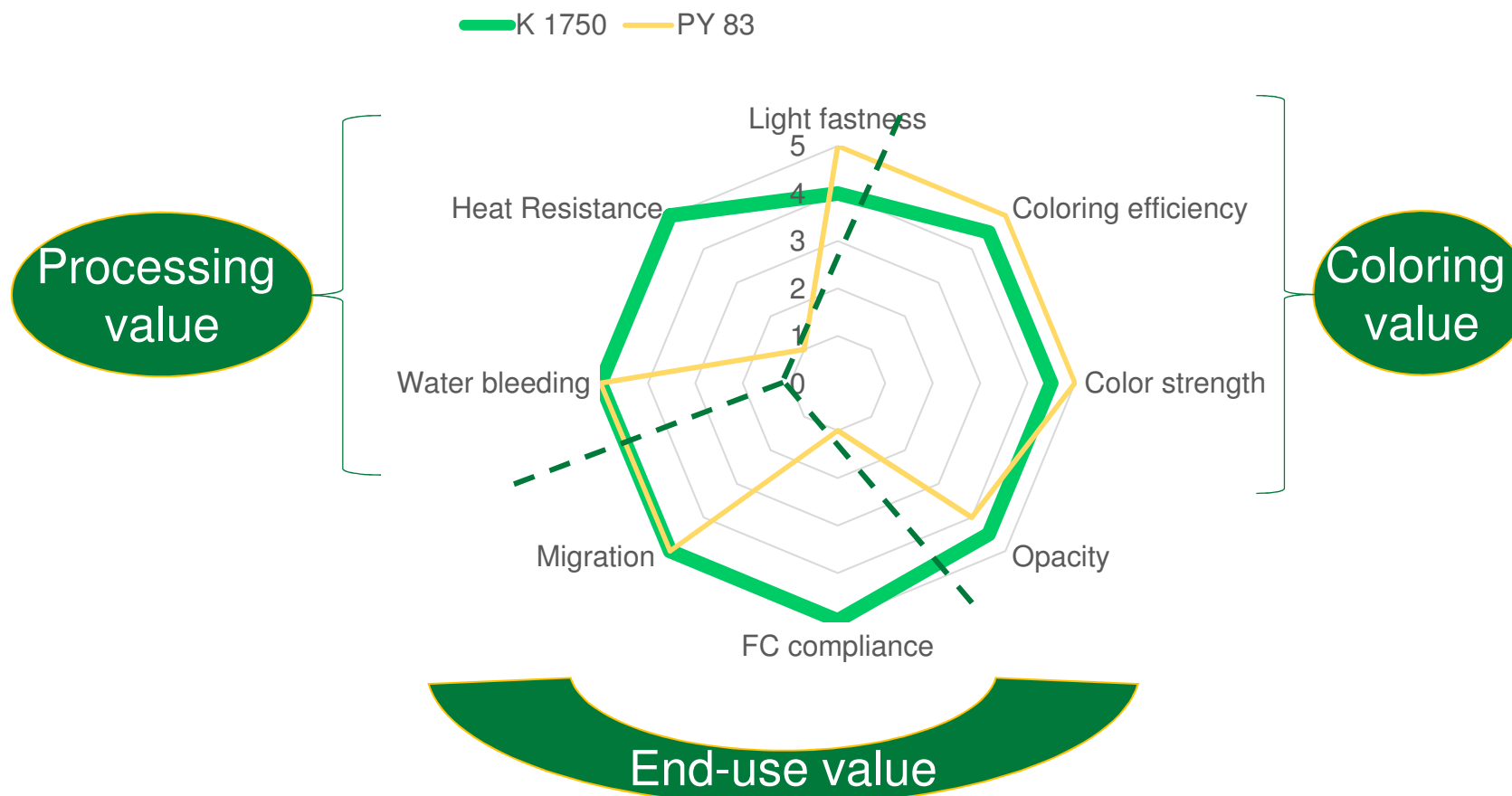
- the product is deemed not to endanger human health as required in Article 3 of Regulation (EC) No. 1935/2004
- the grade is produced to comply with pre-established specifications and purity limits
- the production of the above grade is carried out in production units with the necessary quality control systems, which enable traceability through all stages of production

The product is not authorized as a direct food additive/colorant in the European Union.

Commission Regulation (EU) No 10/2011 of 14 January 2011, most recently amended by the Commission Regulation (EU) 2015/174 of 5 February 2015.
Colorants are authorized but not listed.
Unless otherwise stated, no additives/monomers with an SML or other restrictions are used.

Paliotol® Yellow K 1750

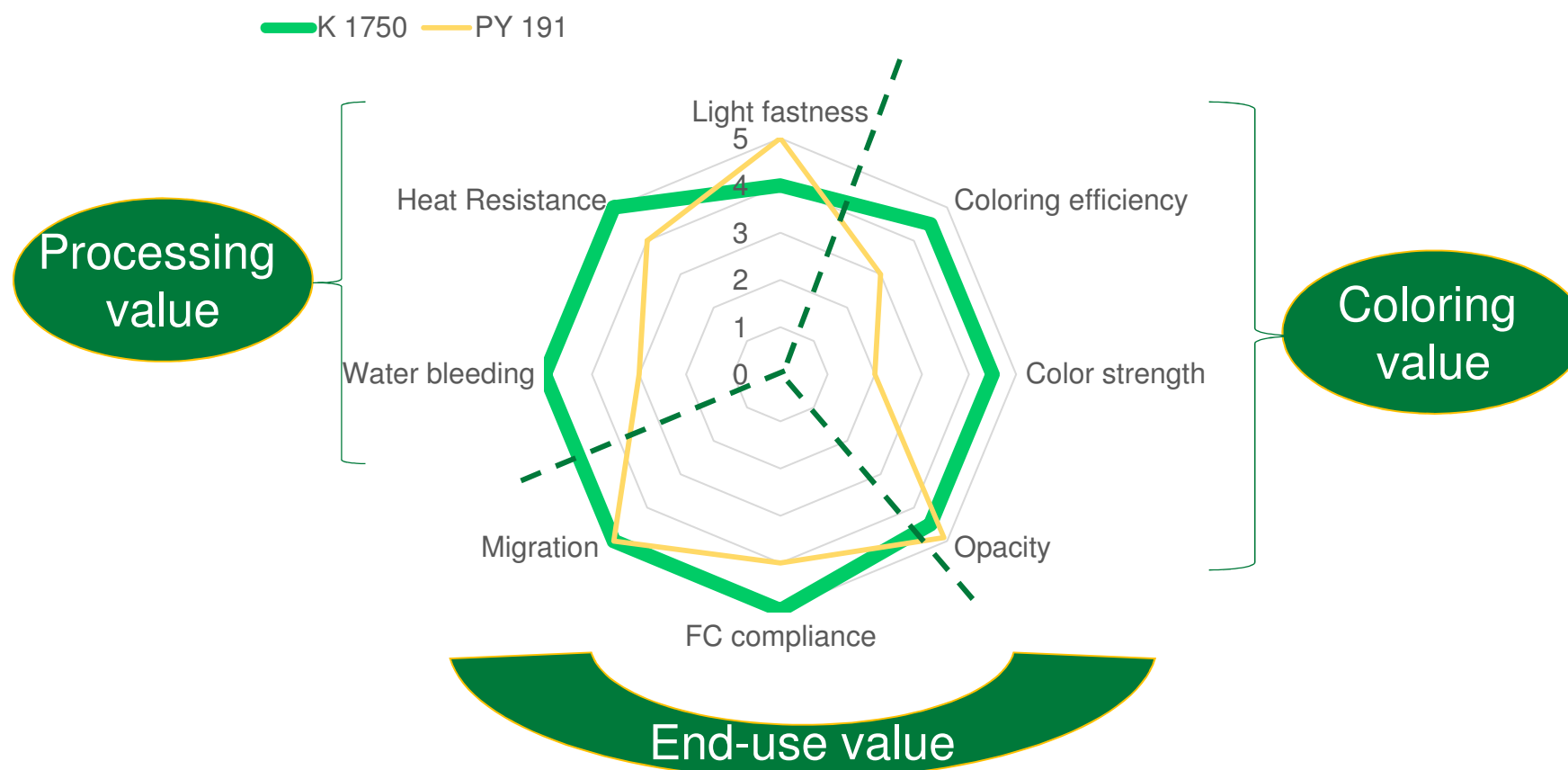
Performance vs. PY 83 (0=worst 5= best)



Much better heat resistance and compliance vs PY83

Paliotol® Yellow K 1750

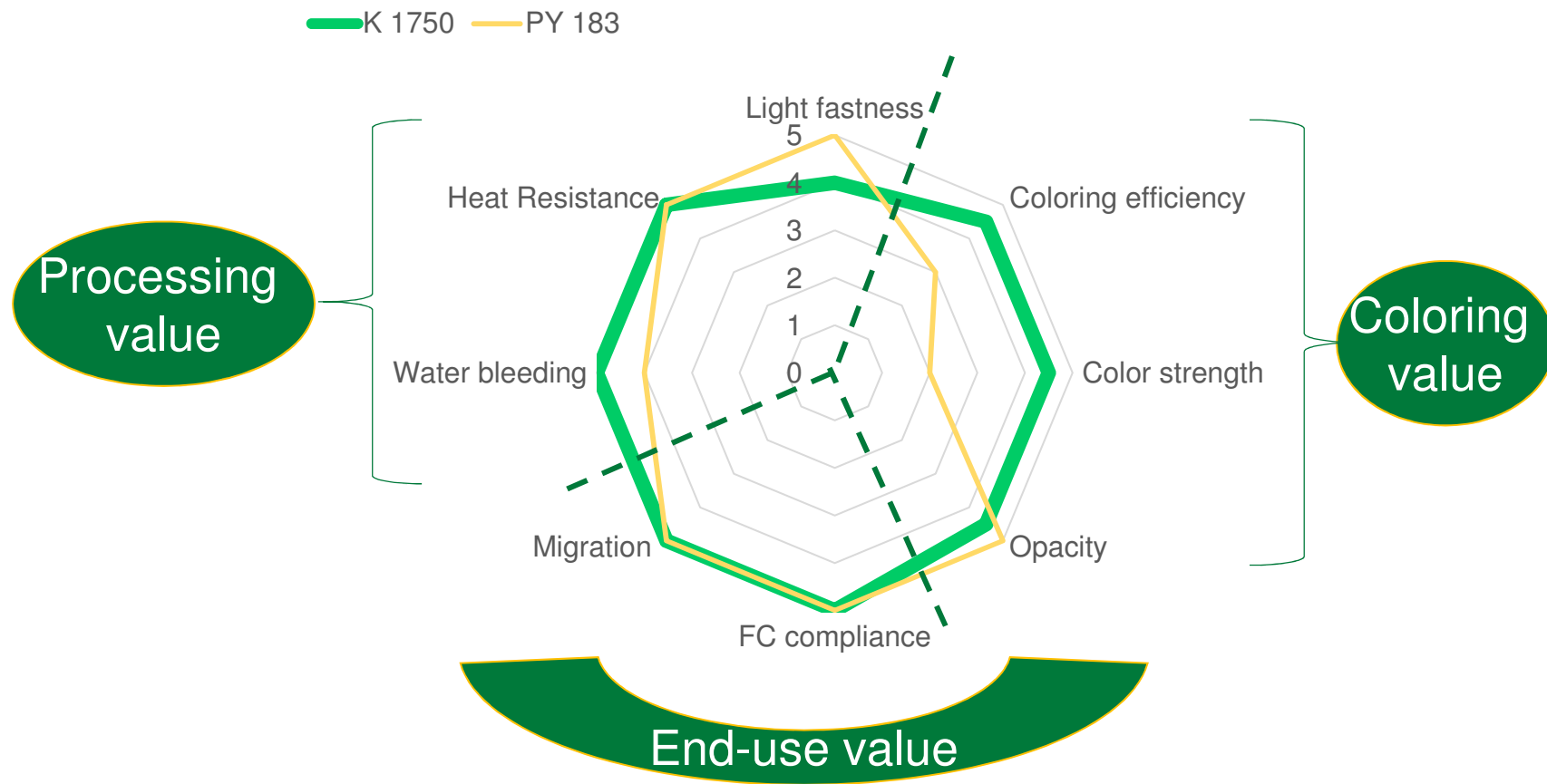
Performance vs. PY 191 (0=worst 5= best)



Much better HS and water bleeding + more efficient vs. PY 191

Paliotol® Yellow K 1750

Performance vs. PY 183 (0=worst 5= best)



Much better water bleeding and stronger than PY 183

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Polymer Suitability

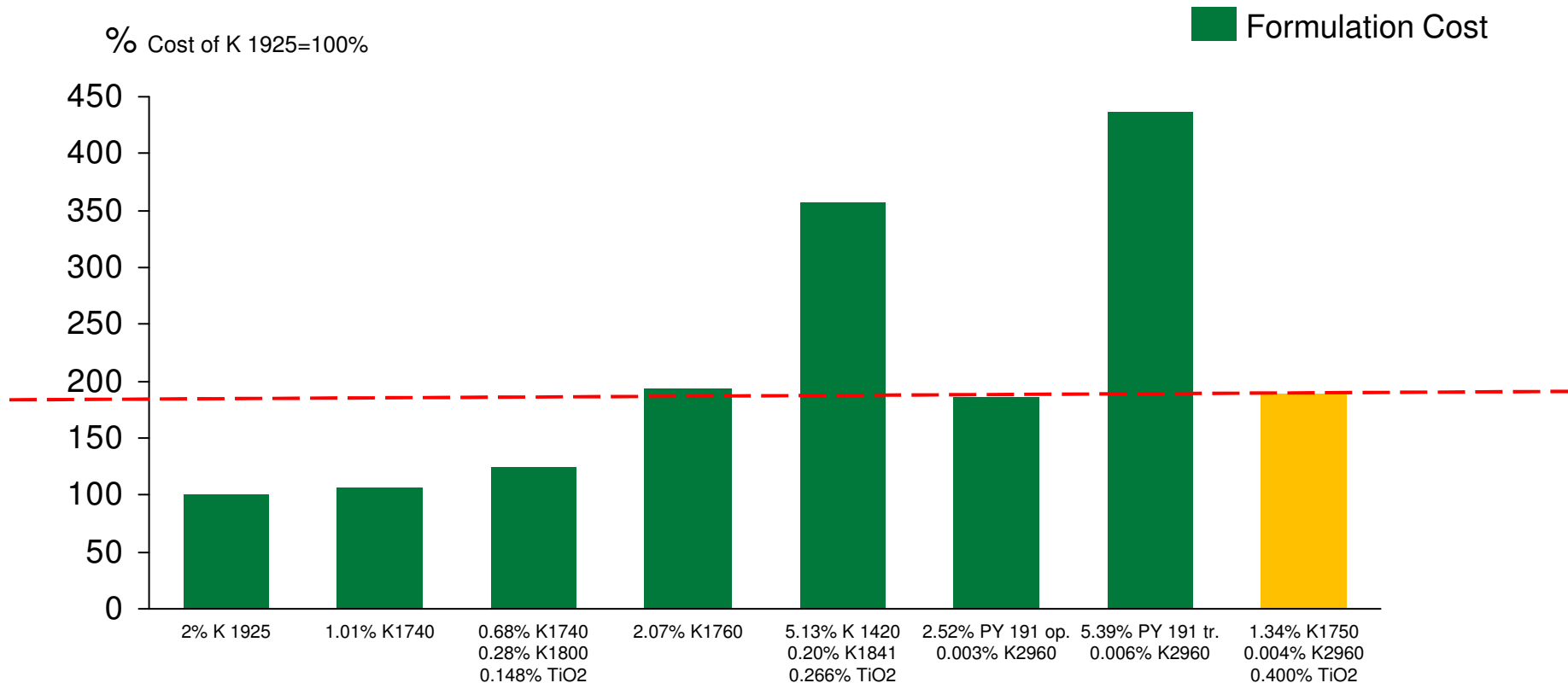
	PVC	LL/LDPE	HDPE	PP	Rubber	PUR
K 1750	■	■	■	■	□	□
PY 83	■	■	☒	☒	■	■
PY 191	■	■	■	■	■	□
PY 183	■	■	■	■	■	■

☒=not recommended, □=limited suitability, ■ = Recommended)

K 1750 target area : PE, PP and PVC

Paliotol® Yellow K 1750

Match 2.0 % Sicomin Yellow K 1925



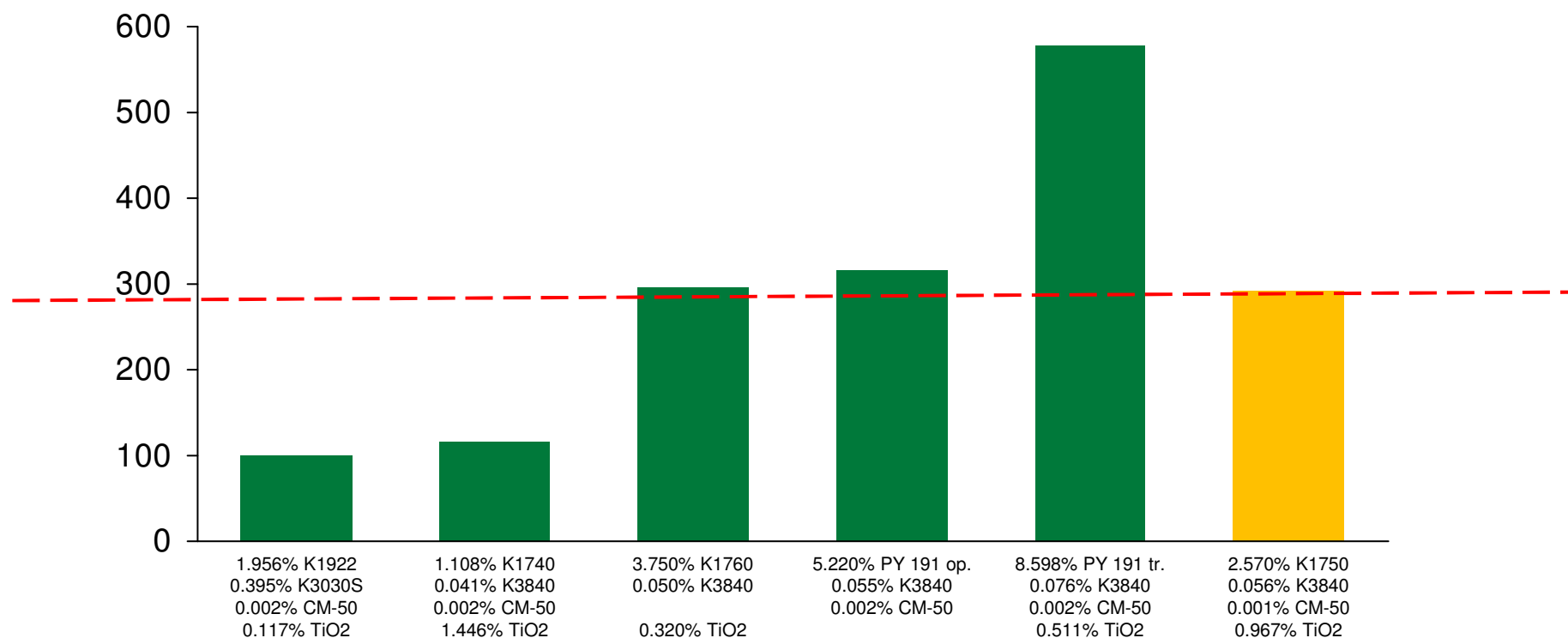
→ K 1750 is most economic alternative to LC beside PY 83

Paliotol® Yellow K 1750

Match RAL 1034 – Opacity 1.0 thickness 0.4mm

% Cost of K 1922=100%

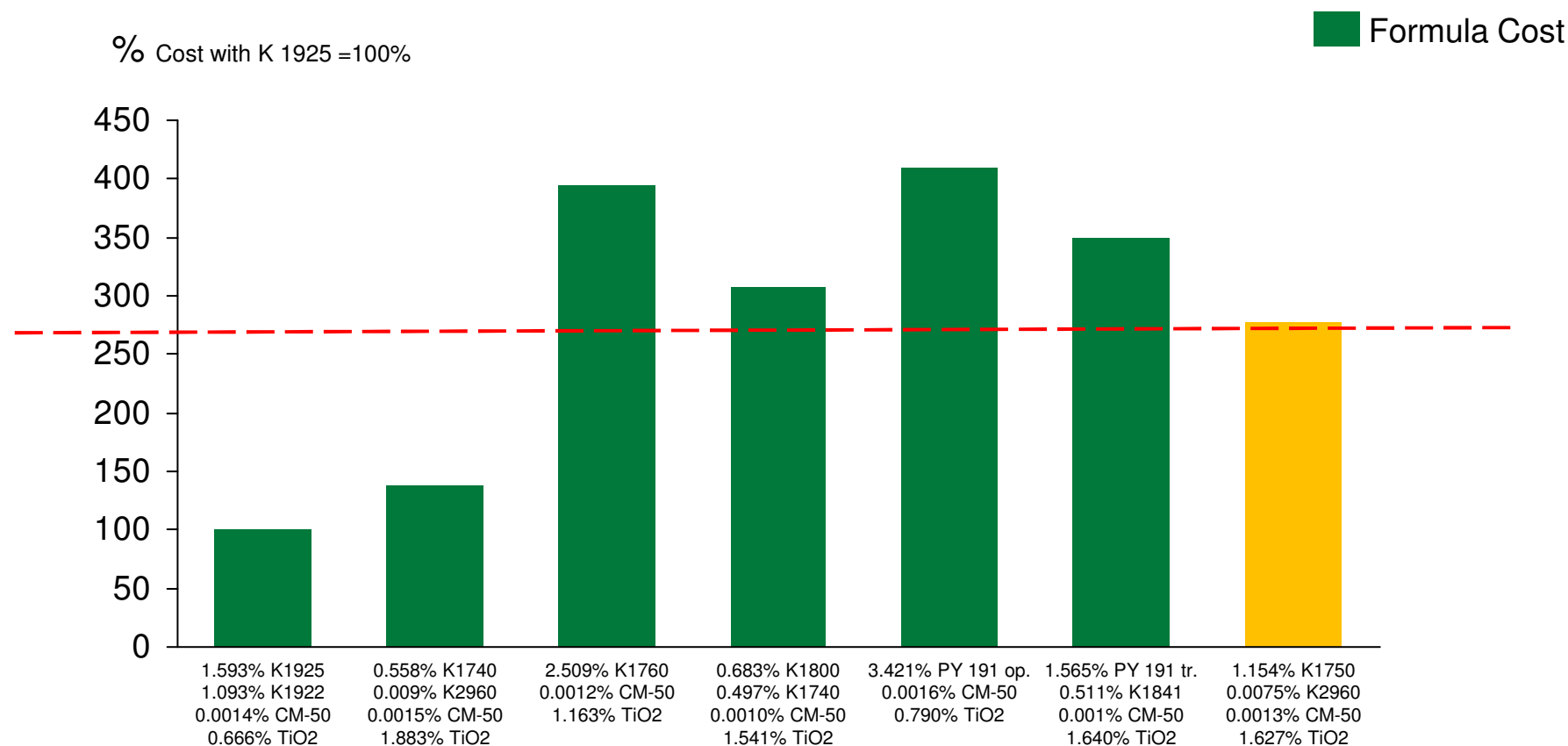
■ Formulation cost



→ K 1750 is most economic alternative to LC beside PY 83

Paliotol® Yellow K 1750

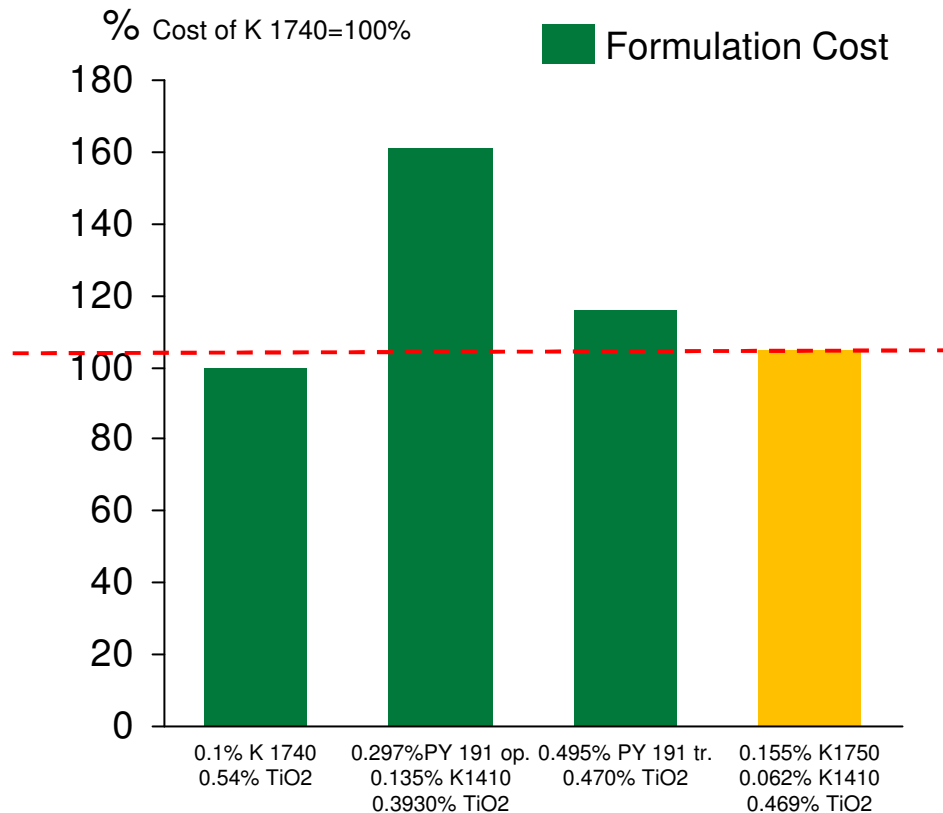
Match RAL 1003 – Opacity 1.0



→ K 1750 is most economic alternative to LC beside PY 83

Paliotol® Yellow K 1750

Match 0.1% PY83 + 0.54% TiO₂ Contrast DE = 15



Additional benefits using K 1750 instead of PY 83

- Avoid decomposition problem from Diarylide above 200°C
- Prevent potential risk of cross contamination in the plants/production lines that are involved sensitive applications

→ K 1750 is the most effective option when replacing PY 83

Paliotol® Yellow K 1750

Product Information

- K 1750 is now available globally since 2H 2016

	Article number	Description
Sample article	50427838	Paliotol Yellow K 1750 0,1kg
Small pack article	50427851	Paliotol Yellow K 1750 2x10kg
Big pack article	50427840	Paliotol Yellow K 1750 32x10kg

- Microlen ® Yellow 1750 MC based on the Ulsan quality will be developed and it will be also food contact compliant as the powder form.
- Introduction on K fair, 2016

Date	Topics	Location
Oct 20 th ,2016	10:30-11:00 Portfolio for sensitive applications and new yellows	Room 12
	11:20-11:50 Effect pigments and Lumina® Royal Range	
Oct 21 st ,2016	10:30-11:00 Colorants for Polyamide	Room 4a/b/c
	11:20-11:50 Pigment preparations	
Oct 24 th ,2016	10:30-11:00 Portfolio for sensitive applications and new yellows	Room 12
	11:20-11:50 Effect pigments and Lumina® Royal Range	
Oct 25 th ,2016	10:30-11:00 Colorants for Polyamide	Room 5
	11:20-11:50 Pigment preparations	

Paliotol® Yellow K 1750

Summary

- Paliotol® Yellow K 1750 is
 - High chroma reddish yellow
 - High Color efficient
 - Halogen free
 - Food contact compliant
- K 1750 offers new opportunity to match new colors



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