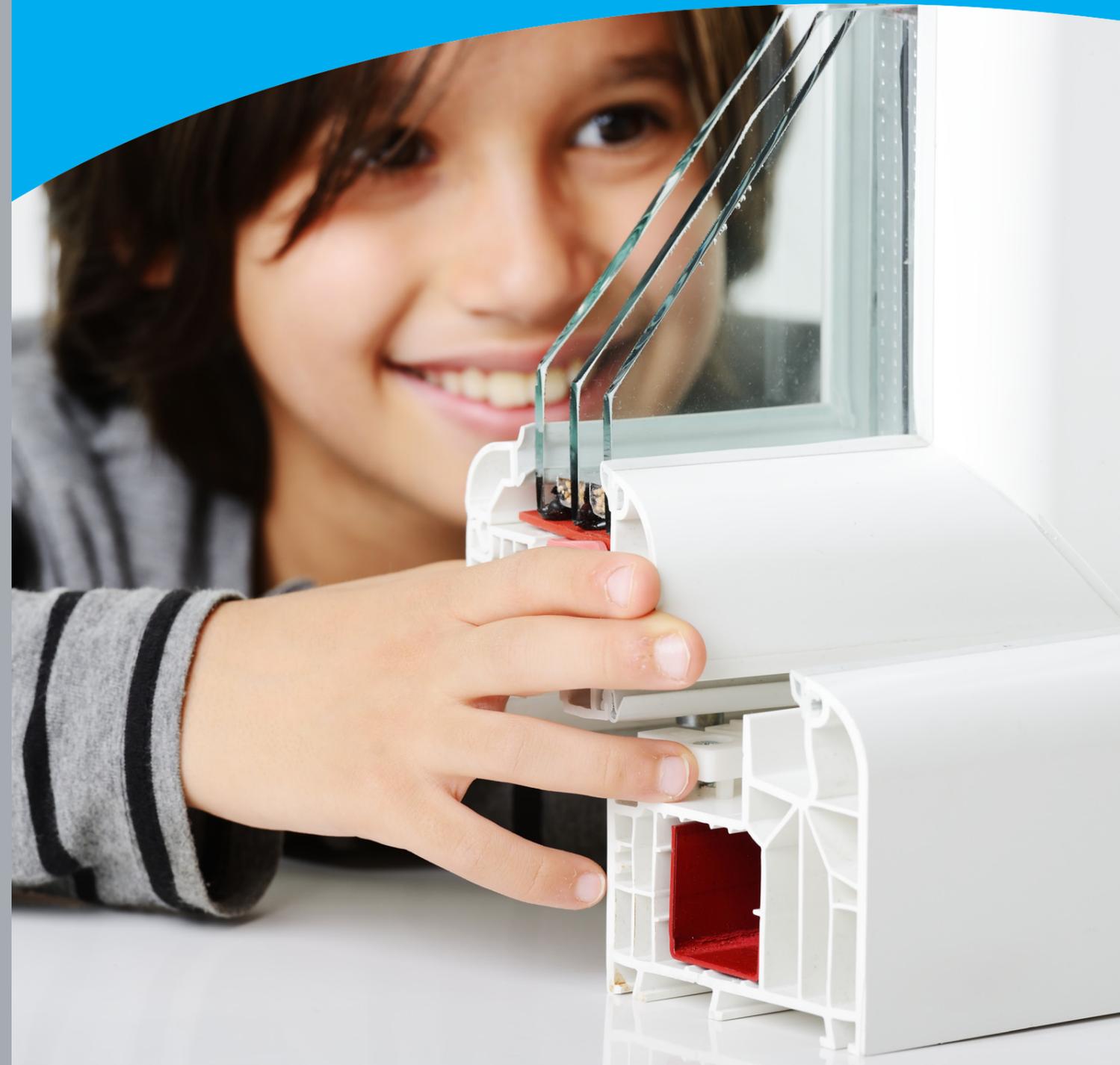


ULTRAPHOR®

The best performing optical brighteners



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CERTIFIED TO
SE EN ISO 9001:2015
SN EN ISO 14001:2015
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/ INTRODUCTION

The ULTRAPHOR® range of optical brighteners offer the highest white effects and best thermal stability for plastic applications. Approved for consumer goods and food contact in USA, EU and Japan, ULTRAPHOR® products are applicable at any stage of processing.



/ BENEFITS

- Applicable even in highly regulated areas such as food packaging and children's toys
- Highest light fastness even under harsh radiation conditions
- Highest temperature stability, up to 400 °C
- Highest chemical resistance and also applicable directly in polycondensation
- Shaded versions are available to meet your application requirements

/ APPLICATIONS



Children's Toys



Electrical isolation



Food Packaging



Chip/Credit cards



Sanitary Items



Sports Shoes



Electronics

/ PRODUCT OVERVIEW

ULTRAPHOR® KS

Application parameters:

Brilliant white effects can be achieved at concentrations of
 50 – 250 ppm (g/to) in pigmented plastic
 10 – 20 ppm (g/to) in transparent plastics
 < 100 ppm (g/to) in soft PVC

Specification and Properties:

Composition: high purity benzoxazole derivatives
 Appearance: yellow-green powder
 Storage: unlimited in dry and dark conditions
 Melting point: 250-300 °C
 Absorbance: λmax 376 nm
 Ionic character: nonionic

Toxicology:

ULTRAPHOR® KS is approved by the FDA, the European Commission and Japan's MITI for all plastics coming into direct contact with food and intensive use (e.g. children's toys)
 ULTRAPHOR® KS, KSN, KSB, KSB3, KSC are approved by the FDA, the European Commission and Japan's MITI for consumer goods applications

/ APPLICATIONS

- ULTRAPHOR® KS is applicable in various types of plastics at any processing stage
- Films, injection molding and compression molding
- Fibers and bristles
- Refining of pastel dyes

Common application concentrations [ppm]:

ULTRAPHOR®	Shade	PET	PE, PP, PS, ABS, PC, PA	PVC rigid	PVC soft	EVA
KS	neutral	220	200	500	100	-
KSN	bluish violet	200	200	500	100	-
KSB	bluish	200	200	-	-	-
KSB3	distinct bluish	200	200	-	-	-
KSC*	neutral	2000	2000	5000	1000	-
KCB	bluish	250	300	500	500	500

* Not recommended for transparent products