DURST PHOTOTECHNIK AG
HEADQUARTERS
BRIXEN

Tau RSC UV INK 3

Light Fastness Test

Issued 12/2023

© Durst Group

Summary

The blue wool rating of the Tau RSC UV Ink 3 after the Xenon Test is:

Color	Blue wool rating
Cyan	8
Magenta	7
Yellow	8
Black	8
White	8
Orange	6
Violet	7
Green	7

Note:

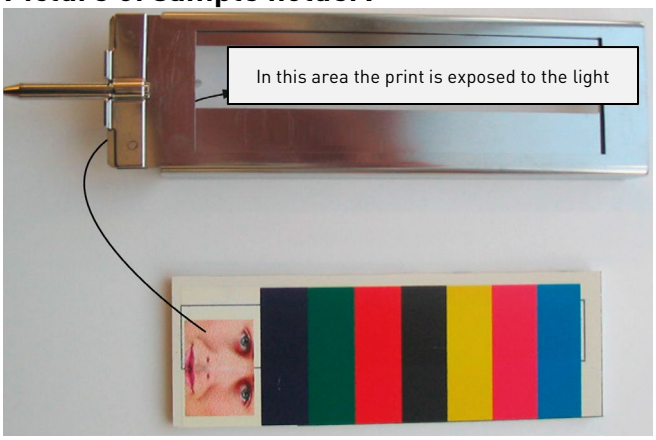
1) The Bluewool rating of the Tau RSC UV Ink 3 showed at the recent test series the same result as the Tau RSC UV Ink set
2) The rating itself depends on the material and is therefore only an indication. Also the use of an additional lamination or varnish will influence the results.

© Durst Group

Test conditions

The sample prints have been placed into the Xenon-Arc Tester to expose them to an artificial light source. In the sample holder 50% of the print is exposed to the artificial light and 50% is completely protected and covered.

Picture of sample holder:



Test parameters

Parameter	Value
Used ISO Norm	**ISO 16474-2:2013** specifies methods for exposing specimens to xenon-arc light in the presence of moisture to reproduce the weathering effects that occur when materials are exposed in actual end-use environments to daylight or to daylight filtered through window glass.
Filter	Xenochrome 320
Radiation intensity (300-400nm)	100W/m²
Rain	Off
Humidity	50% rel.
Temperature control	Rehersal and black standard
Black temperature	65°C
Room temperature	38°C

Sample preparation:

Following materials have been evaluated:

1) Avery Dennison PE 85 Top white AF186
2) Avery Dennison Dig UV Inkjet MC80 FSG
3) Avery Dennison PP 50 Top Clear AT476

The final result reflects the average of the light fastness of the inks on the different materials

The sample prints have been performed on a Tau 330 RSC press with Tau RSC UV ink 3.

© Durst Group

Measurement method

Color measurements were made with Datacolor 650 with Fstop SAV (diameter = 9 mm) and illumination D65 (2°, without UV, Filter FL40,).

Test duration

The samples where exposed to a dose of **418 MJ/m²** which equivaltes exposure to sunlight for **2 years** in middle Europe.

© Durst Group