

Certificate of Compliance

ISO Standard 2846-1:1997

Colour and Transparency of Ink Sets for Four - Colour Printing

For: Sun Chemical Corporation
3348 W. Clearfield Street
Philadelphia PA 19132

Ink ID: **NWHSF9229193, SWOP Black**

Ink Type: Sheetfed Black

Density: 9.43 lbs / gallon

Test Date: 3/25/02

Colorimetry

Standard

Target L* = 18.01 a* = 0.80 b* = -0.56 at 0.9 to 1.3 um film thickness

Range L* <= 18, a* +/- 1.5, db* +/- 3

Ink

Color L* = 16.12 a* = -0.26 b* = -0.91 at 1.21 um film thickness

Results L* = **16.12** da* = **-1.06** db* = **-0.35**

Transparency

Actual n/a

Target n/a

Notes:

Certification is valid as long as there is no change in the formula ingredients or proportions.

CIEL*a*b* colorspace. D50 Illuminant, 2 degree observer.

The transparency value, T, is the reciprocal of the slope of the regression line between ink film thickness and color difference for overprints of chromatic inks over black.

Test Exceptions:

Print roller shore hardness is 65 instead of the suggested 80 - 85.

Print speed is 0.3 m/s instead of the suggested 1 m/s.

Sun Chemical Corporation
Graphic Services
(800) 888-2435
graphicservices@sunchem.com