

Diamond D80K

Aqueous Black Pigment Dispersion

PERFORMANCE COATINGS

PRODUCT DESCRIPTION

Diamond D80K utilises a non-polymeric, anionic dispersing technology. It offers high optical density and superb printability and, having been stabilised utilising Diamond's dispersing technology, this dispersion has wide thermal stability and is easy to formulate into inks suitable for a number of different inkjet printing applications.

PHYSICAL CHARACTERISTICS*

Appearance	Black liquid
CI Reference	Pigment Black 7
Pigment solids content (%)	15 ±0.5
pH	6.0 – 7.5
Viscosity (mPas) at 25°C & 60 rpm	<10
Surface Tension at 25°C (mN/m)	65-72
Average mean particle size (nm)	<120
Conductivity at 25°C (µS)	<3000
Lightfastness (blue wool scale)	8

* Property values represent typical results only and are not to be considered specifications.



TYPICAL APPLICATIONS

	Highly recommended	Recommended	Not recommended
Inks for Desktop	x		
Indirect food contact packaging*			x
Direct to fabric inks for cotton	x		
Direct to fabric inks for polyester/cotton		x	
Inks for Thermal Heads	x		

*Swiss Ordinance Annex 10 compliant

Notes for use

Always combine colourless components of the ink formulation first, and add them to the dispersion slowly, whilst stirring. Adding the dispersion to the ink vehicle could cause it to shock, rendering the product unusable.

SHELF LIFE/STORAGE

Store out of direct sunlight, and at temperatures between 5°C and 40°C. Do not allow the dispersion to freeze.

Recommended re-test date (RRD) is 1 year from the date of manufacture.

REGULATORY STATUS

Please see the product's current safety data sheet, SDS, for regulatory information. You can request an SDS at www.diamonddispersions.com/contact/