



HPP For Printing Inks

COLORFAST® -- Carbazole Violet

VT2311S/VT2312S

Dioxane Pigment
Pigment Violet 23

Exceptionally Low Viscosity &
Excellent Rheological Stability

High Color Strength, Exceptional
High Gloss and Transparency

Highest Mill-base Loadings &
High Dispersibility

Excellent Steam and Boiling
Resistance

Fully REACH Registered



Solvent-based



Ultraviolet



Water-based

Applications

- Solvent-based: PA/NC
- Solvent-based: PU/Vinyl
- Solvent-based: NC/PU
- Solvent-based Flexo
- UV Offset
- UV Flexo
- Metal Deco
- Water-based Flexo



■ HIGHLY RECOMMENDED □ RECOMMENDED

Compliances

- EC: Resolution AP 89 (1)
- European Toy Norm: 71-3-2013
- France: Brochure 1227
- Germany: BfR IX
- Italy: Decreto 21/3/73
- USA: ASTM-toys
- Japan: JHPA List Clear
- China: GB9685-2016



Fully REACH Registered



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VT2311S/VT2312S

Dioxazine Pigment

Pigment Violet 23

Bluish Violet Shade

CI Index: 51319

C.A.S. # 215247-95-3

EINECS. # 606-790-9

Product Overview

COLORFAST® VT2311S/VT2312S is a Dioxazine pigment with outstanding coloring strength and extraordinary rheological performance of this group of pigments. It's recommended for solvent-based packaging inks, as well as for UV offset & Flexo inks.

Properties & Benefits

- Exceptional High Color Strength and Gloss (Chart A)
- Highly Transparent (Table A)
- Lowest Effect On Ink Millbase Viscosity (Chart B)
- Best-in-class Rheology, No Thixotropy (Chart C)
- Overall Good Print Fastness Properties (Table B)

CHART A: COLOR STRENGTH AND GLOSS TEST

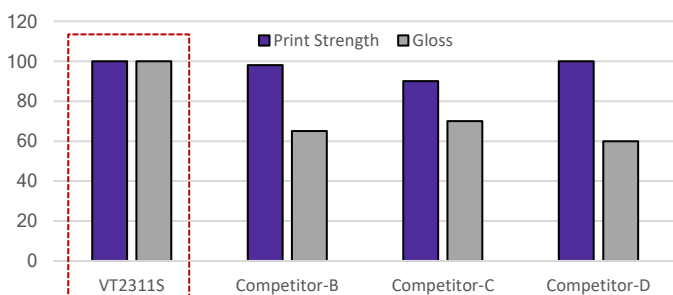
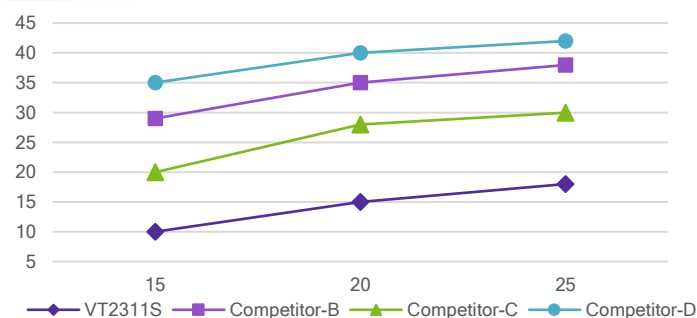


TABLE A: TRANSPARENCY TEST (NC/PA SYSTEM)

VT2311S	Competitor-B	Competitor-C	Competitor-D
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CHART B: VISCOCITY TEST (NC ETHANOL SYSTEM)



Shade Indicator



CHART C: RHEOLOGY TEST (NC-ETHANOL PIGMENT 22%)

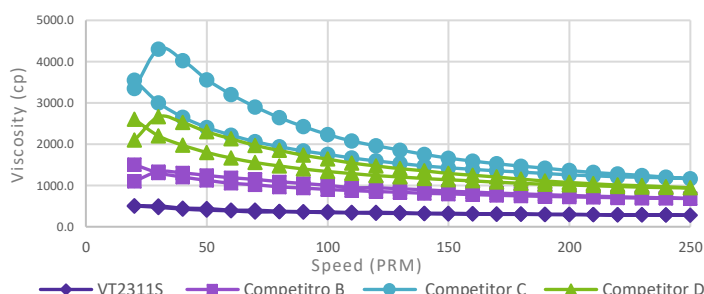


TABLE B: PRINT FASTNESS PROPERTIES

Lightfastness (1/1)	6-7
Lightfastness (1/3)	6-7
Heat Stability, 10 mins	200°C
Sterilization 121°C, 60mins	4-5
Alkali, 2.5% solution	5
Soap, 1% solution	5
Lactic Acid, 5% solution	5
Sulphuric Acid, 5% solution	5
Sulphuric Acid, 1% solution	5
Synthetic Detergent, 1% solution	5
Water	5
Ethanol	5
Butter	5
Cheese	5
Paraffin Wax	5
NC Overlacquer 120°C, 10 sec	5

Lightfastness: 1= Poor 2-3 = Fair 4-5 = Good 6-7 = Very Good 8 = Excellent
Legend: 1 - Poor 2 - Fair 3 - Good 4 - Very Good 5 - Excellent

Disclaimer

The information in this handout is based on extensive testing and application experience and is believed to be a reliable indication of the results that may be expected. However, the data does not constitute a specification for the products, and is offered only as a guide to performance without guarantee or warranty of any kind.