

TECHNICAL DATA SHEET

CN2304

Polyester Acrylate Oligomer

DESCRIPTION

CN2304 is a hyperbranched polyester acrylate oligomer designed with low viscosity and high functionality. CN2304 possesses Low viscosity and fast surface cure. CN2304 is suited to UV/EB-cured inks, hardcoats, plastic and water-based coatings.



SHELF LIFE

Store in the original, closed container in a dry, cool (<45°C) and well-ventilated place. Keep away from frost and heat (open flames, hot surfaces and sources of ignition) sources. Typical shelf-life is 6 months from delivery date for unopened containers. In cases where product sampling is required to carry out incoming quality tests, shelf-life should be maintained beyond opening, provided that it is tightly closed immediately after and that contamination with foreign bodies is avoided. Inhibitors have been added to enhance storage stability. They require the presence of air in the container in order to improve their efficiency. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers

STORAGE

See SDS for Storage Considerations

HEALTH AND SAFETY

See SDS for Health & Safety Considerations

LIQUID PROPERTIES

Appearance	Clear liquid
Functionality	15+
Viscosity at 25°C (mPa.s or cPs)	750
Density at 25°C (g/mL)	1.1754
Refractive Index at 25°C	1.474
Surface Tension at 20°C (mN/m)	33
Color (Pt/Co or APHA)	<250

CURED PROPERTIES

Young Modulus (MPa)	1407
Elongation at break (%)	1
Tensile Strength (MPa)	61
Tg (°C), by DSC	86

PRODUCT PERFORMANCE

Hardness
Stain Resistance
Chemical Resistance
Scratch Resistance
Abrasion Resistance
ABS/PC Adhesion
Metal Adhesion
PVC/PS Adhesion
PE/PET/PP/PMMA Adhesion
Wood Adhesion
Moisture Resistance

SPECIAL FEATURE

High functionality

SUGGESTED APPLICATIONS

3D printing
Flexographic inks
Inkjet inks
Screen inks
Wood coatings

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