

TECHNICAL DATA SHEET

CN2303

Polyester Acrylate Oligomer

DESCRIPTION

CN2303 is a hyperbranched polyester acrylate oligomer designed with low viscosity and high functionality. CN2303 possesses Low viscosity and fast surface cure. CN2303 is suited to UV/EB-cured inks, hardcoats, plastic and water-based coatings.



Improved cure response under LED



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	6
Color (Pt/Co or APHA)	<250
Viscosity at 25°C (mPa.s or cPs)	350
Density at 25°C (g/mL)	1.1434
Refractive Index at 25°C	1.477
Surface Tension at 20°C (mN/m)	40

CURED PROPERTIES

Tg (°C), by DSC	104
Young Modulus (MPa)	259
Elongation at break (%)	2
Tensile Strength (MPa)	6

PRODUCT PERFORMANCE

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

SPECIAL FEATURE

Low odor

SUGGESTED APPLICATIONS

Adhesives & sealants
Flexographic inks
Inkjet inks
Metal coatings
Offset inks
Plastic coatings
Screen inks

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