

TECHNICAL DATA SHEET

CN293

Acrylated Polyester Oligomer

DESCRIPTION

CN293 is a hexafunctional acrylated polyester oligomer that demonstrates good pigment wetting and fast cure response. CN293 is recommended for use in lithographic and flexographic ink formulations, as well as abrasion resistant 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 |
| Viscosity at 25°C (mPa.s or cPs) | 7700 |
| Density at 25°C (g/mL) | 1.0782 |
| Refractive Index at 25°C | 1.489 |
| Surface Tension at 20°C (mN/m) | 35.8 |
| Functionality | 6 |
| Color (Gd) | <10 |

CURED PROPERTIES

| | |
|-------------------------|-----|
| Tg (°C), by DSC | 21 |
| Young Modulus (MPa) | 586 |
| Elongation at break (%) | 4 |
| Tensile Strength (MPa) | 27 |

PRODUCT PERFORMANCE

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

SPECIAL FEATURE

High functionality

SUGGESTED APPLICATIONS

Flexographic inks
Inkjet inks
Offset inks

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