

## TECHNICAL DATA SHEET

# CN2302

## Polyester Acrylate Oligomer

### DESCRIPTION

CN2302 is a hyperbranched polyester acrylate oligomer designed with low viscosity and high functionality. CN2302 possesses the lowest viscosity of Sartomer's hyperbranched polyester acrylates, along with very fast surface cure. CN2302 is the oligomer of choice for applications requiring low viscosity.



### 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)	300
Refractive Index at 25°C	1.473
Surface Tension at 20°C (mN/m)	38
Density at 25°C (g/mL)	1.1333
Color (Pt/Co or APHA)	<300

### CURED PROPERTIES

Elongation at break (%)	8
Tg (°C), by DSC	74
Young Modulus (MPa)	379
Tensile Strength (MPa)	12

### PRODUCT PERFORMANCE

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

### SPECIAL FEATURE

High functionality

### SUGGESTED APPLICATIONS

Electronics  
Flexographic inks  
Inkjet inks  
Metal coatings  
Screen inks

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