

## TECHNICAL DATA SHEET

# CN9893

## Aliphatic Urethane Acrylate

### DESCRIPTION

CN9893 is a difunctional aliphatic urethane oligomer that produces tough, flexible, and abrasion resistant radiation-cured films. CN9893 is resistant to yellowing and is especially recommended for plastic, textile, leather, wood and metal 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	2
Color (Pt/Co or APHA)	<50
Density at 25°C (g/mL)	1.2015
Refractive Index at 25°C	1.472

### CURED PROPERTIES

Tg (°C), by DSC	13
Elongation at break (%)	160
Tensile Strength (MPa)	29
Young Modulus (MPa)	558

### PRODUCT PERFORMANCE

Pigment Wetting  
Shrinkage  
Flexibility  
Wood Adhesion  
Metal Adhesion  
Weatherability  
Scratch Resistance  
Abrasion Resistance  
Corrosion Resistance

### SPECIAL FEATURE

Tough

### SUGGESTED APPLICATIONS

Conformal coatings  
Electronics  
Flexographic inks  
Inkjet inks  
Metal coatings  
Nail varnishes  
Wood coatings

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