

## TECHNICAL DATA SHEET

# CN9302

## Dual Cure Urethane Acrylate Oligomer

### DESCRIPTION

CN9302 is a urethane acrylate oligomer bearing both acrylate and isocyanate (NCO) functionality. It can be used in UV/EB curable, two-part urethane and dual cure formulations. In UV/EB formulations the reactive isocyanate allows for secondary moisture cure of shadowed areas for enhanced coating performance.



### 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
Color (Pt/Co or APHA)	<100
Viscosity at 25°C (mPa.s or cPs)	8500

### CURED PROPERTIES

Tg (°C), by DSC	80
Young Modulus (MPa)	131
Elongation at break (%)	26
Tensile Strength (MPa)	12

### PRODUCT PERFORMANCE

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

### SPECIAL FEATURE

Dual cure

### SUGGESTED APPLICATIONS

Conformal coatings  
Metal coatings  
Wood coatings

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