

## TECHNICAL DATA SHEET

# CN9025

## Aliphatic Urethane Acrylate

### DESCRIPTION

CN9025 is a highly functional aliphatic urethane acrylate designed for use in hard coats or where additional cross linking is necessary. The oligomer does not contain PETA, making it a desirable choice for applications where that particular monomer cannot be used. CN9025 has high hardness and scratch resistance.



### 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)	<100
Density at 25°C (g/mL)	1.0932
Refractive Index at 25°C	1.49
Surface Tension at 20°C (mN/m)	35

### CURED PROPERTIES

Elongation at break (%)	4
Tensile Strength (MPa)	32
Young Modulus (MPa)	676

### PRODUCT PERFORMANCE

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

### SPECIAL FEATURE

High functionality

### SUGGESTED APPLICATIONS

Adhesives & sealants  
Flexographic inks  
Inkjet inks  
Metal coatings  
Overprint varnishes  
Screen inks

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