

TECHNICAL DATA SHEET

CN981

Aliphatic Urethane Acrylate

DESCRIPTION

CN981 is an aliphatic polyester/polyether based urethane diacrylate oligomer. It offers excellent weathering properties coupled with an inherently low viscosity. Additional benefits include an excellent balance of high tensile strength and high elongation, along with a fast cure response. This product can be made with no intentionally added tin.



Most suitable for EB curing



Superior weathering performance



LIQUID PROPERTIES

Appearance	Clear liquid
Functionality	2
Density at 25°C (g/mL)	1.183
Refractive Index at 25°C	1.491
Color (Pt/Co or APHA)	<100

CURED PROPERTIES

Young Modulus (MPa)	296
Tensile Strength (MPa)	42
Tg (°C), by DSC	22

PRODUCT PERFORMANCE

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

SPECIAL FEATURE

Hydrophilic

SUGGESTED APPLICATIONS

3D printing
Flexographic inks
Inkjet inks
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

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