

TECHNICAL DATA SHEET

CN991

Aliphatic Urethane Acrylate

DESCRIPTION

CN991 is a polyester based urethane diacrylate oligomer with low viscosity and excellent conformal properties. CN991 is especially suited to outdoor applications.



Most suitable for EB curing



Superior weathering 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 12 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
Viscosity at 25°C (mPa.s or cPs)	8500
Density at 25°C (g/mL)	1.1072
Refractive Index at 25°C	1.488
Surface Tension at 20°C (mN/m)	37.3
Functionality	2
Color (Pt/Co or APHA)	<100

CURED PROPERTIES

Tg (°C), by DSC	34
Young Modulus (MPa)	33
Elongation at break (%)	49
Tensile Strength (MPa)	11

PRODUCT PERFORMANCE

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

SPECIAL FEATURE

Tough

SUGGESTED APPLICATIONS

3D printing
Adhesives & sealants
Electronics
Flexographic inks
Inkjet inks
Metal coatings
Optical fibers
Overprint varnishes
Screen inks