

TECHNICAL DATA SHEET

CN989

Aliphatic Urethane Acrylate

DESCRIPTION

CN989 is a trifunctional aliphatic urethane acrylate oligomer that imparts toughness and abrasion resistance to UV/EB-cured 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

Functionality	3
Appearance	Clear liquid
Refractive Index at 25°C	1.49
Density at 25°C (g/mL)	1.2015
Color (Gd)	1
Color (Pt/Co or APHA)	<35

CURED PROPERTIES

Tg (°C), by DSC	72
Young Modulus (MPa)	90
Elongation at break (%)	17
Tensile Strength (MPa)	19

PRODUCT PERFORMANCE

Hardness
Shrinkage
Chemical Resistance
Flexibility
Pigment Wetting
Metal Adhesion
Corrosion Resistance
Weatherability
Scratch Resistance
Abrasion Resistance
Moisture Resistance

SPECIAL FEATURE

Tough

SUGGESTED APPLICATIONS

Flexographic inks
Inkjet inks
Metal coatings
Optical fibers

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