

TECHNICAL DATA SHEET

CN9006

Aliphatic Urethane Acrylate

DESCRIPTION

CN9006 is a hexafunctional aliphatic urethane acrylate oligomer developed for UV/EB cure coating applications requiring fast cure response, high hardness, excellent abrasion resistance, and non-yellowing properties.



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)	<200
Density at 25°C (g/mL)	1.1935
Refractive Index at 25°C	1.493
Surface Tension at 20°C (mN/m)	37

CURED PROPERTIES

Tg (°C), by DSC	83
Elongation at break (%)	3
Tensile Strength (MPa)	46

PRODUCT PERFORMANCE

Hardness
Weatherability
Stain Resistance
Chemical Resistance
Wood Adhesion
Scratch Resistance
Abrasion Resistance
Moisture Resistance
Corrosion Resistance

SPECIAL FEATURE

High functionality

SUGGESTED APPLICATIONS

Metal coatings
Plastic coatings

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