

TECHNICAL DATA SHEET

CN9302

Dual Cure Urethane Acrylate Oligomer

DESCRIPTION

CN9302 is a urethane acrylate oligomer bearing both acrylate and isocyanate (NCO) functionality. It can be used in UV/EB curable, two-part urethane and dual cure formulations. In UV/EB formulations the reactive isocyanate allows for secondary moisture cure of shadowed areas for enhanced coating 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 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
Viscosity at 25°C (mPa.s or cPs)	8500
Color (Pt/Co or APHA)	<100

CURED PROPERTIES

Tg (°C), by DSC	80
Young Modulus (MPa)	131
Elongation at break (%)	26
Tensile Strength (MPa)	12

PRODUCT PERFORMANCE

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

SPECIAL FEATURE

Dual cure

SUGGESTED APPLICATIONS

Conformal coatings
Metal coatings
Wood coatings