

TECHNICAL DATA SHEET

CN9024

Aliphatic Urethane Acrylate Oligomer

DESCRIPTION

CN9024 is an aliphatic urethane acrylate that will yield flexible films with high modulus upon free radical polymerization. CN9024 has utility in a number of different applications including adhesives, coatings, and inks. CN9024 generally has good adhesion to polymer and metal substrates due to its low shrinkage and favorable viscoelastic 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	2
Color (Pt/Co or APHA)	<200
Color (Gd)	1
Density at 25°C (g/mL)	1.133
Refractive Index at 25°C	1.481
Surface Tension at 20°C (mN/m)	36.1
Viscosity at 25°C (mPa.s or cPs)	7300

CURED PROPERTIES

Elongation at break (%)	148
Tensile Strength (MPa)	28
Young Modulus (MPa)	47

PRODUCT PERFORMANCE

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

SUGGESTED APPLICATIONS

Adhesives & sealants
Flexographic inks
Inkjet inks
Metal coatings
Offset inks
Overprint varnishes
Screen inks
Wood coatings

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