

TECHNICAL DATA SHEET

CN983

Aliphatic Urethane Acrylate

DESCRIPTION

CN983 is a polyester based urethane diacrylate oligomer with a low molecular weight and offering fast cure response and high cross-link density. It is Sartomer's hardest urethane acrylate oligomer.



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) | <100 |
| Density at 25°C (g/mL) | 1.1323 |
| Refractive Index at 25°C | 1.493 |

CURED PROPERTIES

| | |
|-------------------------|-----|
| Tg (°C), by DSC | 92 |
| Elongation at break (%) | 4 |
| Tensile Strength (MPa) | 57 |
| Young Modulus (MPa) | 190 |

PRODUCT PERFORMANCE

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

SUGGESTED APPLICATIONS

Flexographic inks
Inkjet inks
Wood coatings

Arkema Inc
502 Thomas Jones Way
Exton, PA 19341 – AMERICA
www.Sartomer.arkema.com

Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex
France
www.Sartomer.arkema.com