

## TECHNICAL DATA SHEET

# CN1964

## Urethane Methacrylate

### DESCRIPTION

CN1964 is a low molecular weight urethane dimethacrylate commonly used as the main oligomer in UV and peroxide cured dental, cosmetic, and medical coatings and composites. Use of this oligomer in these applications is well known and references can be found in the literature. CN1964 is also known as DUDMA (diurethane dimethacrylate), UDMA (urethane dimethacrylate), and DiHEMA (trimethylhexyl dicarbamate). Is also available as CN1964CG with no intentionally added tin.



### LIQUID PROPERTIES

Appearance	Clear liquid
Functionality	2
Viscosity at 25°C (mPa.s or cPs)	10000
Density at 25°C (g/mL)	1.123
Refractive Index at 25°C	1.481
Surface Tension at 20°C (mN/m)	37
Color (Pt/Co or APHA)	<60

### CURED PROPERTIES

Young Modulus (MPa)	1400
Elongation at break (%)	11

### PRODUCT PERFORMANCE

Shrinkage  
Flexibility  
Hardness  
ABS/PC Adhesion  
PVC/PS Adhesion  
Chemical Resistance  
Corrosion Resistance  
Weatherability

### SUGGESTED APPLICATIONS

3D printing  
Adhesives & sealants  
Nail varnishes

### 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

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