

TECHNICAL DATA SHEET

SR420

3,3,5-Trimethyl Cyclohexylacrylate

DESCRIPTION

SR420 is a very low viscosity monofunctional monomer that brings high Tg and low shrinkage to UV/EB inks, adhesives, and plastic coatings.

SHELF LIFE

Store in the original, closed container in a dry, cool (<38°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 | 1 |
| Color (Pt/Co or APHA) | <200 |
| Viscosity at 25°C (mPa.s or cPs) | 6 |
| Density at 25°C (g/mL) | 0,9327 |
| Molecular Weight (g/mol) | 195 |
| Refractive Index at 25°C | 1.4453 |
| Surface Tension at 20°C (mN/m) | 27.3 |

CURED PROPERTIES

| | |
|-----------------|----|
| Tg (°C), by DSC | 25 |
|-----------------|----|

PRODUCT PERFORMANCE

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

SUGGESTED APPLICATIONS

3D printing
Adhesives & sealants
Conformal coatings
Electrical potting & encapsulation
Inkjet inks
Metal coatings
Optical fibers
Overprint varnishes
Polymer synthesis
Screen inks
Wood coatings

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