

TECHNICAL DATA

Sanmin CPLT 530

Di- Isononyl Phthalate (DINP)

General Description and Application

DINP is a primary monomer plasticizer of medium molecular weight with a moderate viscosity index and low volatility. Polyvinyl chloride compounds manufactured with this plasticizer offer as main Characteristics very good electric resistivity and excellent transparency. This plasticizer is highly compatible with all polyvinyl chloride resins and ensures a very low exudation.

DINP has better dielectric characteristics than DOP, being therefore particularly suited to the manufacture of compounds for electric conductor cables coating.

Due to its low volatility characteristics, DINP is appropriate for plastisols formulations destined to the automotive industry and to spreading machine operations as it keeps the viscosity of pastes for much longer periods.

In spite of being considered a general purpose plasticizer, such as DOP, DINP confers upon polyvinyl chloride compounds better resistance to soapy water extraction, as well as lower volatility.

Specification

Ester content by GC	: $\geq 99.5\%$
Color (APHA)	: ≤ 30
Moisture	: $\leq 0.1\%$
Acidity, mg KOH/g	: ≤ 0.1
Specific gravity, 25°C	: 0.972 ± 0.003

Physical Properties

Appearance	: colorless liquid
Viscosity, 20°C	: 50 -100 cps (Brookfield LVT #2/60rpm)
Molecular weight	: 418
Refractive index at 20°C	: 1.483 ± 0.003
Crystallizing point	: -48°C
Boiling point, 10 mm Hg	: $205 - 220^{\circ}\text{C}$
760 mm Hg	: 413°C
Flash point, closed cup	: 220°C

Characteristics :

Solubility :

- Soluble in all usual organic solvents, in oils and plasticizer.

- Insoluble in water.

Compatibility :

- Compatible with most synthetic and natural resins, including vinyl polymers and copolymers.

Storage and Handling

Store inside warehouse to avoid direct sunlight. Keep container closed when not in use.

Standard Packing

Steel drum, net weights 200 kg.

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendation and suggestions in your own laboratory prior to use.

