TECHNICAL DATA

CHEMPLAST 523
Dioctyl Phthalate (DOP)

GENERAL DESCRIPTION AND APPLICATIONS

In spite of the development of many other plasticizer, DOP is still the most popular as a monomer plasticizer for utilized in polyvinyl chloride compounds for the manufacture of flexible laminates for automobile, furniture upholstering material, electric cable coating, flexible pipes and a wide variety of other products.

DOP confers flexibility, durability, high electric resistivity, excellent transparency, lack of exudation, easy for mixing and excellent gelling. Also it confers moisturizing capacity to pigments, thereby easy to grinding and very good resistance to light, to weather and resistance to breakage at low temperature, etc.

It is used with nitrile rubber and other types of rubber to increase flexibility, and most particulary as a compound of those products destined to be used in contact with foods.

Due to its very low volatily, it is ideal plasticizer for Zapon varnishes.

DOP is also commonly used in compounds with ethylcellulose, vinyl polyesters, acrylic resins, alkyd resins modified with oils and fatty acids, phthalic resins, shellac and copal, manila and dammar resins.

SPECIFICATION :

Purity, GC	: 99.5 % minimum
Specific gravity 25°C	: 0.977 - 0.984
Moisture	: 0.1% maximum
Color (APHA)	: 30 maximum
Appearance	: colorless liquid
Acidity, mg KOH/g sample	: 0.07 maximum
Odor	: slight characteristic

PHYSICAL PROPERTIES :

Molecular weight	: 390
Refractive index at 20°C	: 1.485+/-0.003
Viscosity, 25°C (Brookfield LVT #1/60RPM)	: 50 - 60 cps
Crystallizing point	: - 45°C
Boiling point, 5 mm Hg	: 230°C
760 mm Hg	: 370°C
Flash point, closed cup	: 210°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.