

# DOP Technical Data Sheet

## Product Characteristics

DOP (Dioctyl Phthalate) or DEHP (Di(2-Ethylhexyl) Phthalate) is the most popular plasticizer in the world and also provide the most desirable combination of performance, characteristics and low cost of any plasticizer family used in Vinyl resins. It is insoluble in water. DOP features good stability to heat and ultraviolet light, a broad range of compatibility, and excellent resistance to hydrolysis.

## Applications

- Flexible PVC compounds
- Garden hose
- Gaskets
- Toys
- Shoe sole
- Cables and wires
- Swimming pool covers
- Furniture and disposable gloves

## Specifications & Properties

➤ Appearance:	Nearly Colorless Clear liquid
➤ Density at 20°C:	0.983-0.989 g/cm <sup>3</sup>
➤ Acid Value:	0.04 mg KOH/g max
➤ Ester content:	284-290 (99.5 %by area) min
➤ Water content:	0.05 max
➤ Heating Loss:	0.07 (%wt@ 125± 3°C, 3 hr) max
➤ Freezing point:	-46.1 °C
➤ Boiling point:	386 °C
➤ Flash point:	206 °C
➤ Acid value after heating:	0.07 mg KOH/g max
➤ Volume resistance:	1.0 × 10 <sup>11</sup> (ohm.cm) min
➤ Purity:	99.50 (%wt) min

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## Properties

- Lower hot melt viscosity
- Reduced sticking of resin
- Reduce sticking in mold
- Increase internal lubricity
- Softening to the resin
- Increase elongation
- Increase tear strength
- Increase Flexibility

## Packing

Packed in 200-liter galvanized iron drum, net weight 200 kg/drum.

## Product Storage

DOP can be stored for at least one year at temperatures below 40°C, if moisture is excluded. Stored at dry, shady, ventilated place.

## Safety Precautions

DOP does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. If eye contact occurs, wash with flowing water and contact physician. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation.

Always refer to the Safety Data Sheet (SDS) for detailed information on safety.