



DINGNUO POLYMER TECHNOLOGY GROUP CO., LTD

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DIOCTYL PHTHALATE (DOP)

PROPERTY:

DOP is a colorless, transparent oily liquid with high stability, high boiling point, and solubility in most organic solvents. It is **the most commonly used PVC plasticizer**, offering excellent compatibility with PVC, high plasticizing efficiency and well-balanced properties among other plasticizers. Although its cold resistance is inferior to DOA, its electrical properties and compatibility are superior.

APPLICATION:

DOP is primarily used in general PVC flexible products, such as **film, cable and wire insulation and sheathing, hose, synthetic leather, furniture, shoe, and foamed products**. It is the primary plasticizer for **UL 60°C electric cable**. Due to its non-reactivity with blood and pharmaceutical solutions, DOP is also used in **medical infusion bag, blood transfusion bag, and infusion tubes**. The formular quantity can reach 150 Phr.

SPECIFICATION:

Item of Analysis	Unit	Value
Appearance		Transparent oily liquid
Color	Platinum-Cobalt No. ≤	25
Purity	% ≥	99.5
Flash Point	°C ≥	196
Water	% ≤	0.1
Acidity (As phthalic acid)	% ≤	0.01
Density	(20°C), g/cm ³	0.982-0.988
Volume Resistivity	*10 ⁹ Ω·m ≥	1.0

PACKING:

In iron drums, 200kg net weight per drum, total 80 drums (16MT) per 20' FCL, OR
In IBC tank, 1,000kg net weight per tank, total 20 tanks (20MT) per 20' FCL, OR
In flexibag, around 21-23MT per 20' FCL.

STORAGE/TRANSPORTATION:

If stored in tanks, purge N₂ to prevent moisture absorption.
If stored in drums, keep the container sealed when not in used.