

(Phthalate Plasticizer)

January 2019

Chemical description

Phthalate plasticizer
corresponding to carbon
chain from C4-C9 alcohols

Product Specification	Value	Test Method
Specific gravity @ 27°C	0.985 – 1.0	ASTM D-1045
Ester Content ,%weight, minimum	99.50	ASTM D-1045
Volatile loss @ 130°C/3 hours, %weight	0.15	PPTM
Colour, Pt-Co, unit(HU) ,maximum	25	ASTM D-1045
Plasticizing Ester ,% by GLC, minimum	99.50	ASTM D-1045
Water , % by weight , maximum	0.10	ASTM E-203
Heat stability @ 180°C / 2 hours	No change in colour	IS-9591-96
Acidity as Acid % by mass ,maximum	0.01	ASTM D-1045
Ester Value (mgKOH/gm)	280-290	ASTM D-1045
Suspended matter	COLSFFM*	Visual
*Clear Oily Liquid Substantially Free Of Foreign Material		

Typical Physical Properties

Apparent Specific Gravity @ 25/25°C.....	0.995
Coefficient of expansion, @ 25°C per °C.....	0.00075
Solubility @ 25°C, in water, % by wt	<0.01
Water in, % by wt	0.20
Pour Point, °C	- 56
Absolute Viscosity @ 20°C, cp.....	60
Refractive Index n_D^{27}	1.483
Flash Point (COC) °C.....	>200
Odour.....	Mild Characteristic

The above properties values are just for reference and not to be considered as guaranteed parameters.

Description

Payflex P-50 is a medium molecular weight phthalate plasticizer, having outstanding cost performance characteristics and have very good fusion behaviour , balance of properties of Payflex P-50 have made it the suitable plasticizer in vinyl formulations. Payflex P-50 is not only the major general purpose plasticizer in vinyl formulations, but also exhibits good compatibility with a broad spectrum of polymeric systems. Payflex P-50 has good electrical properties and excellent heat and light stability. Its good solvating power for vinyl allows a broad tolerance for secondary plasticizers.

Applications

P-50 having almost similar properties like DOP characterized by low volatility & heat resistance. Low temperature resistance, High generation capacity and good electrical properties and good fusion behaviour. Most widely used all purpose plasticizer. Payflex P-50 finds its major applications in Vinyl products , Bottle caps, and closures , Bottles, Coatings, Decorative film, fabric coatings, fishing lures, Flexible medical plastic, flexible medical , floor tile, Garden hoses, Hoses, Vinyl flooring, PVC applications, Sheet vinyl flooring, Vinyl compounding , Textile Industry, Upholstery, Vinyl gloves.

Safety

Payflex P-50 does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. Avoid repeated or prolonged skin contact. Avoid breathing vapour's by providing adequate ventilation.

Packaging

Payflex P-50 is available in bulk and drum packaging.

Storage & Handling

Payflex P-50 has 24 month of shelf life when properly stored in closed containers and kept in cool dry and ventilated area.