



KANATOL - 1012

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Primary plasticizer for PVC and PVC copolymers

Chemical Nature Phthalic acid esters of mixed C₁₀ isomeric alcohols

Chemical Name	:-	C-10 Phthalates
Trade Name	:-	KANATOL- 1012
Molecular Formula	:-	C ₂₈ H ₄₆ O ₄
Molecular Weight	:-	446
Molecular Structure	:-	C ₆ H ₄ (COOC ₁₀ H ₂₁ - COOC ₁₀ H ₂₁)
CAS Number	:-	NA
UN. NO	:-	
EINECS NO	:-	NA

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-86	50 max.
	Volatile Loss (130°C/3Hrs)	wt. %	KLJTM	0.10 max.
	Ester Value	mg KOH/g	ASTM-D-1045-86	247-256
	Acidity	wt. %	ASTM-D-1045-86	0.010 max.
	Moisture	wt. %	ASTM-E-203	0.10 max.
	Specific Gravity (27°C)	-	ASTM-D-1045-86	0.956–0.965
	Ester content	wt. %	ASTM-D-1045-86	99.50 min.
	Heat Stability (180°C/2Hrs)	HU	ISI-9591-96	No Change
	Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.03
	Plasticizing Esters by GC	%by area	KLJTM	99.50 min.
	Residual alcohol	%by area	KLJTM	0.10 max.

Typical Properties

Volume Resistivity	Ohmcm	KLJTM	3.5±1.0X10 ¹¹
Boiling Point @ 7 mbar	°C	lit.	251-256
Pour point	°C	lit.	-48
Viscosity at 20°C	cp	KLJTM	110±7
Flash Point (COC)	°C	KLJTM	>233
Refractive Index (27 °C)	-	ASTM-D-1045-86	1.480-1.486

Total Solution in Plasticizers



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Properties

KANATOL-1012 is a clear, colourless and odourless liquid, free of foreign materials and is soluble in most organic solvent and is slightly soluble in water but soluble in alcohols, hexane etc and is miscible and compatible with all monomeric plasticizers of PVC compounding.

KANATOL - 1012 is a longer chain aliphatic plasticizer, having least migration & least volatile loss. It can lubricate itself cause of structural characteristics. It can replace conventional C-10 plasticizer DIDP in almost all applications due to its lower volatile character.

Application

KANATOL - 1012 is a primary plasticizer for soft PVC products and is recommended to be used in high -temperature cable & wire. A good choice for outdoor applications due to its good weathering behavior, such as automotive interim, roofing membrane, tarpaulins etc.

Plasticizing Efficiency

1.11

Compatibility with Secondary Plasticizers

Limited in comparison of DOP.

Packing & Storage

KANATOL-1012 is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 MT in Flexi tank / ISO tank / road tanker. It is stored in tightly closed container, in a cool & dry, ventilated area.

Shelf Life

It keeps the original characteristics minimum for 24 months, if kept in recommended storage.

Safety

The MSDS can be provided on request.

Disclaimer

The data contained in this publication are based on our current knowledge and experience. During processing, there are so many factors which may affect the application part of **KANATOL-1012**, so these data neither imply any guarantee of certain properties, nor the suitability of the product for the specific purpose. Any data given in this publication may change without prior information and do not constitute the agreed quality of our product.

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