

Disflamoll[®] DPK

Phosphorus Flame Retardants

Description

Phosphate ester with very good plasticizing efficiency and flame retardant characteristics in many polymers.

Chemical Composition

Cresyl diphenyl phosphate (CDP)

CAS Registry Number

26444-49-5

Appearance

Clear, almost colorless liquid.

Solubility

Soluble in many organic solvents like toluene, methanol, acetone, MEK, also compatible with polyether and polyester polyol as well as with all common plasticizers. Insoluble in water.

Typical Properties*

Property	Nominal Value	Unit
Phosphorus content, calculated	9.1	%
Acid value	max. 0.05	mg KOH/g
Water content	max. 0.1	%
Hazen color value	max. 70	#
Refractive index n_D 20 °C	1.562 - 1.564	#
Density at 20 °C	1.205 - 1.215	g/cm ³
Viscosity at 20 °C	44 - 49	mPa·s

*The analytical data are guide values.



Disflamoll® DPK Phosphorus Flame Retardants

Application

Disflamoll® DPK is mostly used as a plasticizing flame retardant in flexible PVC. It can also be used as a flame retardant for polyurethanes (TPU), elastomers and thermosets such as phenolic resin for printed circuit boards. Disflamoll® DPK is not compatible with completely nonpolar polymers such as polyethylene or polypropylene.

Packaging

Road tankers / containers.

Storage conditions

If stored correctly, the product has a minimum shelf life of two years. At sub-zero temperatures triphenyl phosphate may crystallize and form a precipitate. This can be dissolved again when heated up without any adverse effect on quality.

Handling

Consult the safety data sheet for relevant safety data & references as well as possibly necessary warning labels.

® = registered trade mark

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