

Efka[®] PL 5544

(old: Dehysol[®] 344)



general

Highly viscous migration-resistant plasticizer for PVC plastics, coatings, including cellophane and aluminium coatings, printing inks and related applications.

Efka[®] PL 5544 is insoluble in water; it is, however, miscible in all proportions with almost all aliphatic, cycloaliphatic and aromatic hydrocarbons normally used in the processing of plastics and surface coating resins. It offers the following advantages:

- low volatility
- high solvating power
- gives coatings good ageing resistance
- low migration tendency
- good resistance to water and oil
- excellent dielectric behavior
- very good compatibility

chemical nature

dimethyl cyclohexyl phthalate

Properties

physical form

light yellow liquid

shelf life

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 2 years.

typical properties (no supply specification)

saponification value	~ 312 mg KOH/g
density at 20 °C (68 °F)	~ 1.07 g/cm ³
refractive index, 20 °C	~ 1.515
Brookfield viscosity at 23 °C (73 °F)	~ 20,000 mPa·s
Lovibond color 5 1/4"	Yellow: ~ 12.5 / red : ~ 2.5
acid value	~ 0.75 mg KOH/g

Application

Efka® PL 5544 is compatible with:

- vinyl resins (PVC, PVAc, their copolymers)
- polyvinyl acetal
- polyvinyl butyral
- ethylcellulose
- cellulose nitrate
- cellulose acetate butyrate
- polystyrene
- polymethyl methacrylate
- chlorinated rubber and shellac

there is also good compatibility in compounds with:

- alkyd resins
- phenol resins
- urea-formaldehyde resins

some of the most popular applications are:

- high quality furniture coatings
- paper coatings and printing inks based on cellulose nitrate and vinyl chloride copolymers
- leather coatings
- printing inks
- organosols and plastisols
- aluminium and cellophane coatings
- ceramic paints
- underbody sealants for motor vehicles
- hot dip coating compounds
- strip coatings
- PVC plastics

Efka® PL 5544 is not compatible with cellulose acetate.

recommended concentrations

dosage is recommended in PVC pastes in combination with primary plasticizers up to 15%, in NC paints up to 100% relating to the nitrocellulose.

Safety

When handling these products, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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