

Adimoll® DO Plasticizers

Description

Low-temperature-resistant plasticizer suitable for a large number of polymers, inclusive polyvinyl chloride (PVC), polyurethanes (PUR), rubbers, nitro- and ethyl cellulose, and polyvinyl acetate (PVAc).

Chemical Composition

Di-2-ethylhexyl adipate (DEHA, DOA)

CAS Registry Number

103-23-1

Appearance

Clear liquid

Solubility

Soluble in all common solvents; the solubility in cold water is low.

Typical Properties*

Property	Nominal Value	Unit
Refractive index nD20	approx. 1.447	#
Acid value	max. 0.1	mg (KOH)/g
Color value, Hazen	max. 20	#
Water content	max. 0.1	%
Relative density at 25 °C	approx. 0.925	g/cm ³
Dissolution temperature	approx. 149	°C
Viscosity at 20 °C	approx. 13	mPa·s
Pour point	approx. -65	°C

*The analytical data are guide values.



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Application

Adimoll[®] DO imparts:

1. very good low-temperature resistance to suitably plasticized compounds; this effect is clearly noticeable even when Adimoll[®] DO is used in combination with other plasticizers.
2. very good light stability to PVC compounds.

It is particularly beneficial to use Adimoll[®] DO when very good low-temperature resistance and light stability are required, together with high elasticity. Adimoll[®] DO is used for a wide range of articles based on polyvinyl chloride (PVC), acrylonitrile butadiene rubber (NBR), styrene-butadiene rubber (SBR), chloroprene rubber (CR), ethylene-vinyl acetate rubber (EVM), polyurethanes (PUR), and ethylene-propylene copolymers (EPM). Adimoll[®] DO is also compatible with polyvinyl butyral (PVB), nitrocellulose and ethyl cellulose, polystyrene and natural rubber. It has a limited compatibility with cellulose acetate butyrate, cellulose propionate and polymethylmethacrylate.

Adimoll[®] DO is used when regulations and recommendations governing food contacting applications need to be met. More information is available on request.

Packaging

- Drums, 190 kg
- Road tankers

Storage conditions

The product should be stored in its tightly sealed original container in a cool, dry place. If stored properly, the product keeps for 2 years. Once opened, containers should be resealed tightly after removal of product.

Handling

A receiving inspection is recommended. Consult material safety data sheet (MSDS) for additional handling information on Adimoll[®] DO.



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® = registered trade mark

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