

Technical data sheet

DIPLAST[®] O/MG

Version: January 2015

Chemical composition

Di-2-ethylhexyl phthalate (DOP or DEHP)

CAS number

117-81-7

EINECS number

204-211-0

Specifications

Characteristics	Unit	Value	Test method	
Density at 20°C	g/ml	0.983 - 0.985	GM 012	ASTM D 4052-96
Refractive index n_D^{20}		1.486 - 1.487	GM 020	ASTM D 1045-95
Colour	Pt – Co	20 max.	PL02F	ASTM D 1045-95 ASTM D 1209-00
Acidity	mgKOH/g	0.02 max.	PL02C	ASTM D 1045-95
Water content	%	0.05 max.	GM 010	ASTM E 203-96
Ester content	%	99.5 min.	PL10C	G.C.
U.V. absorbance on aqueous extract		0.1 max.	PL03C	
Reducing substances on aqueous extract	ml	0.3 max.	PL05C	

DIPLAST[®] O/MG is an oily, limpid, anhydrous liquid, with a mild characteristic odour. It is soluble with common organic solvents, insoluble in water and miscible with most of the plasticizers used in the processing of PVC.

Di-2-ethylhexyl phthalate is listed in the European Pharmacopoeia as a plasticizer for materials based on PVC (polyvinylchloride).

DIPLAST[®] O/MG is supplied by Polynt as plasticizer for polymers intended to be used exclusively for the production of medical articles.

The product **DIPLAST[®] O/MG** due to its nature does not have a shelf life. However it can be stored in appropriate containers at a temperature of approximately 25°C and the exclusion of humidity for at least 1 year, without losing its chemical properties.

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Version n°03 16/01/2015
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General characteristics

Characteristics	Unit	Value	Test method	
Viscosity at 20°C	mPa·s	79	GM 022	ASTM D445-96
Saponification number	mgKOH/g	287	PL08C	BS 4835
Heavy metals content:				
• Chromium	ppm	< 1		
• Barium	ppm	< 1		
• Tin	ppm	< 1		
• Lead	ppm	< 1		
• Cadmium	ppm	< 0.1		
• Copper	ppm	< 1		
Flash point	°C	> 200	PL15C	ASTMD 92-96

The figures above are typical values and are not intended as specification limits.

For further information on the characteristics and properties of **DIPLAST® O/MG** in the liquid state, see the relevant EC-standard Materials Safety Data Sheet.

The information contained here is correct and accurate and is based on our technical and scientific knowledge at the date of going to press.

Such information is, in all cases, relevant only with respect to the product as used in its pure state and only for the uses referred to in this publication.

Nothing stated here may be taken or construed as implying a breach of existing patents.

No warranty, either expressed or implicit, is given with regard to the results to be obtained from using this information.

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