

## Technical data sheet

### Polimix<sup>®</sup> 850

Version: January 2014

#### Chemical composition

Polyester plasticizer based on adipic acid and polyhydric alcohols

#### Specifications

Characteristics	Unit	Value	Test method	
Density at 25°C	g/ml	1.110 - 1.130	GM012	ASTM D 4052-96
Refractive index n <sup>20</sup> <sub>D</sub>		1.467 - 1.470	GM020	ASTM D 1045-95
Colour	Pt - Co	150 max.	PL02F	ASTM D 1045-95 ASTM D 1209-00
Acidity	mgKOH/g	2.5 max.	PL02C	ASTM D 1045-95
Viscosity at 25°C	mPa.s	7500 - 9500	GM022	ASTM D 445-96

The above figures are typical values and should not be considered as specifications limits.

**Polimix<sup>®</sup> 850** is a pale yellow limpid liquid, anhydrous with a low odour and free from matter in suspension. It is soluble with common organic solvents, practically insoluble in water and miscible and compatible with most of the monomeric plasticizers usually utilized to soften PVC (it is good laboratory practice to make a preliminary compatibility test in the specific PVC compound being considered).

The product **Polimix<sup>®</sup> 850** 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.

For further information on the characteristics and properties of **Polimix<sup>®</sup> 850** the liquid state, see the relevant EC-standard Materials Safety Data Sheet.

#### Liquid properties

Temperature (°C)	Viscosity (mPa.s)
10	37100
25	8740
30	5700
40	2750
60	890

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## Characteristics and applications

**Polimix® 850**, being a medium viscosity polymeric plasticizer, offers to users and compounders interesting processing characteristics.

Permanence, low volatility, extraction resistance by oils, fats and hydrocarbons, low tendency to migrate are the main properties of the PVC articles produced with **Polimix® 850**.

**Polimix® 850** can be used alone or as a blend with monomeric plasticizers in a wide range of applications such as:

- electrical cables resistant to mineral oils;
- adhesive labels;
- electrical adhesive tapes;
- safety footwear resistant to fats and hydrocarbons;
- hydrocarbon resistant tubes;
- gloves and other protective garments;
- conveyor belts;
- leathercloth.

*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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