Product information

OXYESTER T 1136

GENERAL DESCRIPTION

Oxyester T 1136 is a saturated polyester diol. It is supplied as a solvent-free, clear liquid of medium viscosity.

SPECIFICATION

Property	Value	Unit	Test method
Hydroxyl number	107 ± 10	mg KOH/g	DIN 53 240 / ASTM E 222
Viscosity at 23 °C	4.0 ± 0.8	Pa·s	DIN EN ISO 3219

TYPICAL DATA

Property	Value	Unit	Test method
Hydroxyl content	approx. 3.2	% by wt.	-
Acid number	< 2	mg/KOH/g	DIN EN ISO 3682
Water content	< 0.1	% by wt.	DIN 51 777
Density at 25 °C	1.09	g/cm^3	DIN 51 757 / ASTM D 2111
Setting point	- 23	°C	DIN 51 583
Flash point (open cup)	231	°C	DIN 51 584
Flash point (closed cup)	160	°C	DIN 51 758
Colour (APHA)	≤ 150		DIN/ISO 6271
Ignition temperature	430	°C	DIN 51 794

PROPERTIES AND APPLICATIONS

Oxyester T 1136 is a linear polyester diol characterized by its good compatibility with commercially available PUR resins. It has been developed primarily for the use in aliphatic PUR technology. The main application is as a flexibilizing polyol, e.g. in combination with trifunctional polycaprolactones like Capa® 305 (Interox) or Tone® 305 (Union Carbide) for PUR elastomers, as well as in 2K PUR high-solids paints or 1K stoving systems. Oxyester T 1136 is also a suitable polyol for the production of air-drying PUR resins (waterborne polyurethane dispersions or solventborne systems).

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COMPATIBILITY AND SOLUBILITY

Oxyester T 1136 is compatible with many resins and additives used in the production of polyurethane compounds. The solubility of this polyester in ketones, esters and aromatics is an important requirement for paint applications.

STORAGE AND PACKAGING

Oxyester T 1136 can be stored in unopened containers for at least one year without loss of quality in accordance with the above specification.

At storage temperatures < 5 °C turbidity may occur. This can be reversed by warming up to 30 – 40 °C.

It is supplied in 25 kg cans and 200 kg non returnable drums.

SAFETY AND HANDLING

Please refer to our Material Safety Data Sheet.

Marl, June 10, 2018; This data sheet replaces all former issues.

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