

## Technical Information

## TEGOPREN® 5847

**Product description**

TEGOPREN® 5847 is a polyether siloxane. It is a non-ionic product with 100 % active content.

**Physical properties**

Viscosity (25 °C)	50 – 100 mPas
Density (25 °C)	1.02 – 1.05 g/ml
Cloud point (4 % solution)	51 – 58 °C
Flash point	> 65 °C
Refractive index (25 °C)	1.449 – 1.453
Surface tension (25 °C) (0.1 % in water)	Approx. 23 mN/m
Appearance/colour at room temperature	Liquid, colourless to pale brownish straw

**Solubility (25 °C)**

Water	Soluble
Alcohol	Soluble
Aromatics	Soluble
Aliphatic hc	Insoluble
Chlorinated hc	Soluble
Paraffin Oil	Insoluble

**Applications**

Apart from its extraordinary reduction of surface tension in aqueous solutions, the main property of TEGOPREN® 5847 is super spreading. This is the fast coverage of large hydrophobic surface.

TEGOPREN® 5847 shows excellent surface wetting in adhesive application, where the coating of difficult substrates is required. Furthermore, it is recommended for curtain coating applications.

The improvement of penetration into paper or its wetting of fibres, make TEGOPREN® 5847 suitable for adhesives used in the paper, wood and furniture market as well as for non-wovens and hygiene products.

**Benefits**

TEGOPREN® 5847 is a solvent-free easy to handle liquid.

Due to its non-ionic nature it is compatible with cationic, anionic, non-ionic and amphoteric surfactants.

The use of small amounts of TEGOPREN® 5847 reduces the surface tension of water-based systems. It therefore enhances the spreading on non-polar surfaces e. g. polypropylene.

**Dosage**

Depending on the application the recommended dosage may vary between 0.03 % and 0.15 %. Suitable screening test should be performed with 0.1 %.

**Food Contact Status****FDA**

TEGOPREN® 5847 complies with 21 CFR 175.105 (adhesives).

**Registration status**

The ingredients of TEGOPREN® 5847 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, ECL, PICCS and China

## Packaging

800 kg pallet (4 x 200 kg steel drums)  
1 000 kg container

## Storage and handling

12 months in original sealed containers at room temperatures.

## Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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