

Technical Information

TEGOPREN® 5878

Product description

TEGOPREN® 5878 is a polyether siloxane. It is a non-ionic product with 100 % active content.

Physical properties

Appearance	Liquid, colourless to pale straw/brownish
Viscosity	11 – 24 mPas
Density	1.00 – 1.02 g/ml
Refraction index	1.4410 – 1.4450
Flash point	> 100 °C
Surface tension (0.1 % in water)	Approx. 21 mN/m

Solubility (25 °C)

Water	Soluble, slightl turbid
Alcohol	Soluble
Aromatics	Soluble
Aliphatic hc	Insoluble
Chlorinated hc	Soluble

Applications

Apart from its extraordinary reduction of surface tension in aqueous solutions, the main property of TEGOPREN® 5878 is superspreading. This is the fast coverage of large hydrophobic surfaces.

TEGOPREN® 5878 shows excellent surface wetting in adhesive applications, where the coating of difficult substrates is required. Especially for adhesives for clear film applications it is highly recommended, because it has no influence on the water resistance of the adhesive film.

Benefits

TEGOPREN® 5878 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® 5878 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 %.

For adhesive applications a standard dosage of 0.1 to 0.6 % is recommended. If the wetting agent is used to overcome defects or craters the standard dosage is 0.1 – 0.3 %. For the wetting of critical substrates or an improved penetration it is recommended to use 0.3 – 0.6 %.

Food Contact Status**FDA**

TEGOPREN® 5878 complies with 21 CFR 175.105 (adhesives).

Registration status

The ingredients of TEGOPREN® 5878 are listed in the following chemical inventories:

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

Storage stability

12 months in original sealed containers at room temperature.

Packaging

Pallet à 800 kg (4 x 200 kg steel drums)
1 000 kg Containers

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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