

Product Information

TEGOPREN® 5840

PRODUCT DESCRIPTION

TEGOPREN® 5840 is a polyether siloxane. It is a non-ionic product with 100% active content.

Typical Properties

Property	Unit	Value
Appearance		Liquid, colorless to pale straw
Cloud Point	°C	20-30
Flash Point	°C	≤101
Refractive Index at 25°C		1.4460
Solubility in Water		soluble
Solubility in Alcohol		soluble
Solubility in Aromatics		soluble
Solubility in Aliphatic h. c.		insoluble
Solubility in Chlorinated h. c.		soluble
Solubility in Paraffin Oil		insoluble
Surface Tension 0.1 % in water	mN/m	22
Viscosity at 25°C	mPa·s	40-90

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Apart from its extraordinary reduction of surface tension in aqueous solutions, the main property of TEGOPREN®

5840 is super spreading. This is the fast coverage of large hydrophobic surfaces.

TEGOPREN® 5840 is advisable in a multitude of industrial applications where negative interaction between substrates and coatings has to be overcome.

TEGOPREN® 5840 shows excellent surface wetting in adhesive applications, where the coating of difficult substrates is required. Therefore, it is recommended for the production of transfer labels and tapes or for laminating processes.

Furthermore, it is suitable for sealant applications.

BENEFITS & ADVANTAGES

- TEGOPREN® 5840 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® 5840 reduces the surface tension of water-based systems. It therefore enhances the spreading on non-polar surfaces e. g. polypropylene
- Due to the special selection of active ingredients TEGOPREN® 5840 might outperform, depending on the formulation and application, conventional wetting agents such as sulfosuccinates in foam (inhibiting) behaviour
- TEGOPREN® 5840 improves spreading and wetting properties (e. g. in metal working fluids)

HANDLING & PROCESSING

Depending on the application the recommended dosage may vary between 0.03% and 1.0%.

Suitable screening test should be performed with 0.1%-0.3%.

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%.

PACKAGING

25 kg plastic cans

200 kg steel drums

1 000 kg Containers

SHELF LIFE

12 months in original sealed containers at room temperature.

The shelf life period can be subject to prolongations based on reapprovals in accordance with the established Evonik ISO 9001 quality management process.

HAZARDOUS SUBSTANCE

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.

REGISTRATION LISTING SUMMARY

The relevant components of TEGOPREN® 5840 are listed/registered or exempt in the following chemical inventories.

Registration Listings

Registry	Status
Australia (AIC)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
USA (TSCA)	Yes

FOOD CONTACT COMPLIANCE

FDA

TEGOPREN® 5840 complies with 21 CFR 175.105 (adhesives).

ISEGA-Certificate

Detailed information is available on request.

Disclaimer

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