

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, min.	°C	101
Refractive Index		1.4460 at 25°C
Solubility		soluble in Water
Solubility		soluble in Alcohol
Solubility		soluble in Aromatics
Solubility		insoluble in Aliphatic h. c.
Solubility		soluble in Chlorinated h. c.
Solubility		insoluble in Paraffin Oil
Surface Tension	mN/m 0.1 % in water	22
Viscosity	mPa·s at 25°C	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 (AICIS)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes
European Union (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
United States of America (TSCA)	Yes

FOOD CONTACT COMPLIANCE

FDA

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

ISEGA-Certificate

Detailed information is available on request.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

Interface & Performance
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173-2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
evonik.click/interface-performance