

Technical Information

TEGOPREN® 6875

TEGOPREN® 6875 is a liquid alkyl modified siloxane (liquid silicone wax) to be used for surface treatment of fillers, pigments and flame retardants making them easier dispersible in thermoplastics formulations. TEGOPREN® 6875 is also used in-situ during compounding.

Physical properties

Active content	100 %
Flash point	> 140 °C
Density [25 °C]	approx. 0,91 g/ml
Viscosity [25 °C]	approx. 350 mPas
Appearance [25 °C]	liquid, pale to slightly colored

Application

TEGOPREN® 6875 improves the dispersion of:

- inorganic fillers e. g. titanium dioxide, talc
- inorganic pigments e. g. ultramarine blue, iron oxides
- flame retardants, e. g. MDH or ATH
- organic pigments, e. g. phthalo blues or DPPs

in polyolefines and engineering resins.

Furthermore, TEGOPREN® 6875 is used as a liquid dispersing additive in the manufacture of masterbatches.

Benefits

By hydrophobizing the pigment/filler/flame retardant surface TEGOPREN® 6875 offers several advantages:

- higher filling grades
- excellent rheological properties
- improved water repellency/lower water up-take
- improved weatherability
- improved mechanical properties
- higher colour strength
- less speck formation

Handling and Dosage

Surface treatment

TEGOPREN® 6875 can be applied in the wet filter cake. Alternatively, TEGOPREN® 6875 can be added to the dry pigment either in a tumble mixer or by spraying it, e.g. in a spray drier or during milling. The material does not need an elevated temperature nor an explosion protected equipment. TEGOPREN® 6875 can be used in steam mill processes with elevated temperatures much above 200 °C.

In-situ use

TEGOPREN® 6875 can be used with a liquid dosage pump or in a premix of a masterbatch for the manufacture of masterbatches. Furthermore, TEGOPREN® 6875 is available in solid form.

The optimum dosage depends on the nature of the treated particle and the composition of the polymeric formulation. The optimum dosage may lay in a range between 0.2 % and 3.0 %. For surface treatment, a dosage between 0.5 % and 1.0 % is considered as standard, whereas 1.0 % to 2.0 % is considered as standard for the in-situ usage.

Food contact status

FDA

TEGOPREN® 6875 complies with 21 CFR 178.3725 (Pigment dispersants) for use as a pigment dispersant in all polymers at levels up to 0.5 % by weight of the pigment.

BfR

TEGOPREN® 6875 may be used in compliance with the BfR Recommendation XV.

Registration

The ingredients of TEGOPREN® 6875 are listed in the following chemical inventories:

EINECS, DSL, TSCA, IECSC, PICCS, NZIOC, TCSI

The active substance in TEGOPREN® 6875 is registered under K.REACH for Evonik Korea Ltd. Based on the submitted information of our raw material suppliers we can confirm, that TEGOPREN® 6875 is compliant with EC Regulation 1907/2006 (REACH).

Storage

TEGOPREN® 6875 can be stored minimum 12 months in original sealed containers at room temperature.

Packaging

50 kg plastic drums (450 kg each pallet)
900 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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Evonik Nutrition & Care GmbH

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
www.evonik.com/Interface-performance

