

# TEGOPREN® 6814

## Product description

TEGOPREN® 6814 is an alkyl modified siloxane (liquid silicone wax) of organophilic behaviour.

## Physical properties

Appearance [25 °C]	liquid, colorless to pale straw
Viscosity [25 °C]	approx. 350 mPas
Density [25 °C]	approx. 0.90 g/cm <sup>3</sup>
Flash point (DIN EN 22719)	> 100 °C
Active matter	100 %

## Application

TEGOPREN® 6814 can be used as an additive for thermoplastic polymer formulations to improve lubrication and surface slip properties.

In textile application it can be used as an additive for fibre finishing to improve lubrication or wetting and spreading of non-polar systems. TEGOPREN® 6814 can also be used as an additive in softener formulations to improve the smooth hand of fabrics.

## Benefits

TEGOPREN® 6814 shows the following benefits due to its capability to combine the properties of the organic modification and those of siloxanes:

- improve mold release properties during injection molding which allows faster cycle times and less machine down time

- improved flow characteristics which will finally result in the reduction of amperage values and lower energy consumption
- better processability resulting in higher through-put
- higher surface quality giving better water repellency, surface gloss and lower friction
- reduction of fibre fibre and fibre metal friction
- improved hand of softener formulations

## Dosage

The amount used depends on the required properties in the specific formulation. Usually the additive will be used in the range from 0.5 to 5.0 %. Already at concentration of less than 0.5 % TEGOPREN® 6814 is quite efficient in the lowering of COF of polyolefines.

For textile application TEGOPREN® 6814 can be applied as single component from pre-formulated emulsions or in combination with other products. As single component or formulated with other nonionic products for finishing TEGOPREN® 6814 has to be applied by padding. For padding applications approx. 2 – 10 g/l active product is recommended.

Final dosage depends on the application and specific formulation in use, as well as on the required performance.

### Registration

The ingredients of TEGOPREN® 6814 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, PICCS, ECL and IECSC

### Storage stability

12 months in original sealed containers at room temperature.

### Packaging

180 kg steel drums

### 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.

07/2015

### Trademark notice and legal notice

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(Status: July 2015)

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