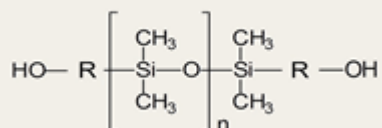


Technical Information

TEGOMER® H-Si 2315

Chemical structure



Physical properties

Functional group	primary hydroxyl group
Functionality	2
No. of repeating units (n) approx.	30
Hydroxyl value [mg KOH/g]	approx. 45
Molecular weight [g/mol]	approx. 2 500
Viscosity [mPas/25 °C]	approx. 90
Density [g/cm ³ /25 °C]	approx. 0.96
Appearance	clear liquid
Solubility	most common organic solvents

Application

By the reaction of hydroxyl end groups TEGOMER® H-Si 2315 can be introduced permanently in polyurethane resins, thermoplastic polyurethanes (TPU) or other suitable polymers.

Benefits

Due to the reactive modification typical properties of a siloxane are introduced to the polymer resulting in:

- improved flexibility, even at low temperatures
- tack-free properties by release effect

- improved melt flow rates during processing
- improved mould flow

Dosage

The amount used depends on the required properties. The concentration can range from 3 to 30 weight-% based on polymer. Typical values are in the range of 2 to 5 %.

When all organic OH is substituted by TEGOMER® H-Si 2315 a thermoplastic silicone elastomer (TPSE) is obtained.

Handling

This low viscose material can be easily used and dosage is no problem at all. Therefore, TEGOMER® H-Si 2315 can be used in different polymerization vessels either as block in a polymerization or for pre-polymer manufacturing.

The material is not hygroscopic but after usage of certain amounts the total closure of the container or drum is always recommended.

Registration status

The ingredients of TEGOMER® H-Si 2315 are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, KECL, PICCS, IECSC,

Based on the submitted information of our raw material suppliers we can confirm, that TEGOMER® H-Si 2315 is compliant with EC Regulation 1907/2006 (REACH).

Storage stability

In closed containers TEGOMER® H-Si 2315 can be stored up to 1 year.

Packaging

25 kg plastic can (200 kg each pallet)

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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