

Technical Information

TEGOSTAB® B 8002

Description

TEGOSTAB® B 8002 is a surfactant for the manufacturing of flexible polyether polyurethane foams.

Key performance benefits

- Extremely large processing latitude due to its low activity.
- Especially suitable for the manufacturing of high-density foams.
- Reliable processing of formulations based on highly reactive polyols, including polymeric polyols.
- Suitable also for TDI visco foams.
- Belongs to the group of conventional silicones and is not optimized to meet flammability standards.

Typical properties*

Appearance	Clear to slightly yellow liquid
Viscosity at 25 °C	650 mPa · s
Density at 25 °C	1.03 g/cm ³
Calculated OH number	65 mg KOH/g

* For actual ranges, please refer to the Certificate of Analysis (CoA) / Sales Specification.

Application

TEGOSTAB® B 8002 belongs to the group of foam stabilizers with low activity and offers an extremely wide processing latitude. This foam stabilizer was developed especially for the manufacturing of high-density foams, and for enabling reliable processing of formulations which need just a little bit of additional stabilization from the foam stabilizer. This includes high density formulations up to densities of 80 kg/m³, used for insole foams.

TEGOSTAB® B 8002 diminishes the susceptibility to splits and, compared with a more active stabilizer, it permits a higher catalysis with tin compounds.

In addition, TEGOSTAB® B 8002 is also well-proven when used in mixtures with a stabilizer of higher activity, such as TEGOSTAB® BF 2370, with the objective to stabilize critically adjusted formulations for low- and medium-density foams. Such mixtures of stabilizers, which contain 30 to 50 weight-% TEGOSTAB® B 8002, extend the field of application of the tin catalyst – the so-called stannous octoate latitude – and definitely contribute to considerably diminish the risk of splits in the foam surface and also in the lateral and bottom zone.

Common use levels of TEGOSTAB® B 8002 are in the range of 0.6 and 2.0 parts per 100 parts of polyol. The optimal concentration will depend on specifics of the formulation.

TEGOSTAB® B 8002 is recommended to be delivered to the mix head or manifold by a direct line. If a mixture with water is used (activator blend), the blend shall be used up at the same day. It shall not be mixed with FR additives or tin catalysts prior to the mix head.

Storage recommendations

- Shelf life: minimum 6 months. For exact date of expiration, please consider CoA.
- Storage conditions: dry and cool place in factory-packed containers.
- Optimum storage temperature: 10 to 30 °C.
- Solidification point: below -20 °C.
- Hence, storage at low temperatures is principally no difficulty. However, it is recommended to warm up undercooled material until close to ambient room temperature before use.

Safety instructions

Please consult the Safety Data Sheet for summary of product hazards, personal protective measures, and emergency release procedures.

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