Technical Information

TEGOSTAB® B 8232

Description

TEGOSTAB® B 8232 is a surfactant for the manufacturing of flexible polyether polyurethane foams. It is particularly well-suited for the production of flame-retardant foam grades.

Key performance benefits

- Suitable for FR foams including also Crib V flammability testing
- Medium potency
- Production safety due to wide processing latitude
- Provides open-celled structure of the foam
- VOC optimized according to the latest state-of-the-art

Typical properties*

Appearance	Colorless to slightly yellow liquid
Viscosity at 25 °C	600 mPa·s
Density at 25 °C	1.03 g/cm³
Calculated OH number	69 mg KOH/g

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

Application

TEGOSTAB® B 8232 is counted among the medium active silicone surfactants. An outstanding feature of this product is its processing latitude, which is extraordinarily wide and, in addition, also its strengths in respect to flame retardancy.

Common use levels of TEGOSTAB® B 8232 are in the range of 0.7 and 2.0 parts per 100 parts of polyol. The optimum concentration will depend on specifics of the formulation

Instructions for use in flame-retardant foams

TEGOSTAB® B 8232 does not reduce the combustibility of foams by itself. But it considerably improves flame-retardancy in formulations which contain flame-retardants. This effect makes it possible to pass certain burn test with the use of less than the usually applied quantity of flame retardant.

As an alternative, the flame retardant can be dosed as usual; thus, achieving much better test results. The efficiency related to a defined quantity of used flame retardant can easily be improved by 15 % and more. Since this value, however, may be dependent of other features, such as the cell structure or the type of the test to be passed, it is always recommended to perform appropriate optimization tests.

The burning characteristics of foams referred to in this leaflet must always be seen in relation to the tests to be applied and do not necessarily reflect the hazards under actual fire.

Storage recommendations

- Shelf life: minimum 12 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 -10 °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.

Evonik Operations GmbH
Rellinghauser Straße 1-11
45127 Essen, Germany
Phone: +49 201 173 3006
Email: polyurethane@evonik.com

For any further information, contact either your regional sales or technical support or visit our customer portal explorepu.evonik.com.

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