

TEGOSTAB® B 8870

TEGOSTAB® B 8870 is a non-hydrolysable poly-siloxane-polyether-copolymer to be used preferably for the production of special types of rigid polyurethane foams, e. g. one-component foam or packaging foam.

Physical Properties

Specific gravity (25 °C)	1.02 ± 0.01 g/cm ³
Viscosity (25 °C)	2 500 ± 500 mPas
pH (4 % hydrous solution)	7.5 ± 1

Instructions for Storage

The solidification point of TEGOSTAB® B 8870 is below -10 °C, i.e. storage temperatures fluctuating around 0 °C do not cause any deterioration of the material apart from the usual increase of the viscosity with falling temperatures. Nevertheless it is recommendable to bring cold material up to ambient temperature before it is used.

For TEGOSTAB® B 8870 we guarantee a shelf life of at least 12 months upon delivery, provided it is kept in originally sealed drums and protected against extreme weather conditions, particularly against heat and moisture.

Application

Due to the special molecular design TEGOSTAB® B 8870 provides both a heightened nucleating efficiency and a stronger stabilization even in critical reaction mixtures which are difficult to stabilize, like e. g. packaging foams or canned one-component foams (foams for the construction industry).

Packaging foam

The use of highly reactive polyol systems and high use levels of water are typical features for formulations used as packaging foams. Such formulations, when reacted with isocyanate at sub-stoichiometric conditions and stabilized with TEGOSTAB® B 8870, are good for very economic densities as low as 7 kg/m³ or even lower. The tendency towards splitting and shrinkage, otherwise feared and present in such all water blown low density systems, is suppressed by the application of TEGOSTAB® B 8870.

The need for stabilizing support of these systems depends on the composition of the polyol component. The use level of TEGOSTAB® B 8870, therefore, may vary between 0.4 and 1.0 pphp.

One-component foam

The special properties of TEGOSTAB® B 8870 make this stabilizer an optimal auxiliary for this type of foam. TEGOSTAB® B 8870 prevents a too early escape of the blowing gases (e. g. HCFC, HFC or hydrocarbon types) from the prepolymer froth when this is still "some kind of a liquid".

The strong stabilizing effect of TEGOSTAB® B 8870 furthermore prevents the cells from coalescing what avoids a coarsening of the structure when the foam is curing. The curing itself proceeds in a fast and even way as the generated surfaces are permeable to the air humidity.

In this case the applied concentration of TEGOSTAB® B 8870 should be about 2.0 parts per 100 parts pre-polymer.

Packing

200 kg iron drums
1 000 kg plastic containers

For Information

- on classification and labeling in accordance with shipping instructions and the Toxic Substances Control Act
- on protective measures during storage and handling
- on measures in case of accidents and fire
- on toxicology and ecological toxicity

please refer to our safety data sheets.

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