

TEGOSTAB® B 8680

Silicone stabilizer for HR foam.

TEGOSTAB® B 8680 is a non-hydrolysable foam stabilizer preferably used in the production of high resilient (HR) slabstock foams.

Physical Properties

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|----------------------|---|
| Appearance | clear, colourless liquid |
| Density (25 °C) | 0.952 ± 0.008 g/cm ³ |
| Viscosity (25 °C) | 13 ± 2 mPas |
| Water content | max. 0.2 % |
| Solubility | insoluble in water/ soluble in polyols |
| Calculated OH number | 120 |

Recommended storage conditions

The storage stability of TEGOSTAB® B 8680 is at least 12 months – provided it is kept in originally sealed drums and protected against extreme weather conditions, particularly against heat and water.

Cold is not a general problem because TEGOSTAB® B 8680 has a solidification point below –20 °C. Nevertheless it is recommendable to bring it up to ambient temperature before the material is used.

Application

The solubility of TEGOSTAB® B 8680 suggests to feed it as a separate stream or as a premix with the polyol. It can also be applied as ingredient of ready mixed complete resin components. Because of the insolubility in water, however, it should not be fed via water/amine-premixtures.

Performance

TEGOSTAB® B 8680 is preferably used in formulations for HR slabstock foams which are based on high reactive polyols modified with inherent organic solids and predominantly TDI 80 as the reaction partner. Such polyols are known as polymerpolyols, SAN polyols, PHD polyols or PIPA polyols which can be made by the foamer himself by a procedure to be licensed from Innochem.

This type of formulation needs the support of a special foam stabilizer like TEGOSTAB® B 8680 which safely provides the necessary stabilizing efficiency but reduces the negative effects of over-stabilization – like insufficient resiliency, a bad compression set or even shrinkage – resulting mainly from remaining closed cells due to a difficult and therefore incomplete crushing.

The well-balanced efficiency of TEGOSTAB® B 8680 makes this stabilizer a very versatile material which can be used with good results also in formulations for CMHR foams filled with melamine.

As the need for stabilizing support of a formulation depends on several items, e. g. the reactivity of the polyol, the filler content, the degree of cross-linking etc., a use level for the stabilizer can only be given in a very general way as sort of a guiding figure to make the start of own optimizing work safer and easier.

0.75 parts per 100 parts of polyol can be seen as a safe start with TEGOSTAB® B 8680 for densities between 20 and 30 kg/m³, 0.45 p.p.h.p. for densities about 40 kg/m³. In most cases the optimizing work then will show a tendency towards a somewhat lower level.

Packaging

190 kg iron drums
950 kg plastic containers

Information concerning

- classification and labelling according to regulations for transport of chemicals
- protective measures for storage and handling
- measures in case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

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