

TEGOSTAB® B 8490

TEGOSTAB® B 8490 is a non-hydrolysable poly-siloxane-polyether-copolymer to be used as a cell stabilizer for the manufacture of rigid polyurethane foams.

Physical properties

Specific gravity (25 °C)	1.04 – 1.06 g/ml
pH value (4 % aqueous solution)	5.0 – 8.0
Viscosity (25 °C)	350 – 550 mPas

Recommended storage conditions

The solidification point of TEGOSTAB® B 8490 is about 10–15 °C. If stored unprotected during the cold season, it can solidify. This has no negative influence at all on the efficiency of TEGOSTAB® B 8490. It will liquefy again once it is brought into an environment with normal ambient temperatures. In such a case it might be advisable to mix the product for a short time just as a precaution to get the material absolutely homogeneous.

For TEGOSTAB® B 8490 we guarantee a shelf life of at least 12 months upon delivery under the condition, that it is stored in factory-packed containers and protected against extreme weather conditions, particularly against heat and moisture.

Application

TEGOSTAB® B 8490 is designed especially for flame retarded PUR foam, e. g. foam that meets the B2 standard, which is blown with blowing agents such as HFC's, hydrocarbons or purely water. Furthermore TEGOSTAB® B 8490 is also well applicable for PIR foams.

TEGOSTAB® B 8490 dissolves in all commonly used rigid foam polyols. The applied concentration of TEGOSTAB® B 8490 should be about 1.0 – 2.0 parts per 100 parts polyol.

Performance

TEGOSTAB® B 8490 provides an unmatched combination of high stabilizing potency and positive influence on the burning behaviour of the final foam.

In case of flame retarded PUR foam TEGOSTAB® B 8490 allows meeting the flammability standards with low levels of flame retardants. In contrast to well established silicone surfactants providing similar flammability performance TEGOSTAB® B 8490 offers a significantly improved stabilizing potency resulting in a better λ -value and reduction of surface defects (including defects caused by defoaming contaminations on facing materials). For this reason TEGOSTAB® B 8490 is the best choice for PUR metal panels in case of high requirements concerning the flammability performance of the stabilizer.

In case of PIR foam the effect of silicone surfactants on the burning behaviour is less pronounced, but the high stabilizing potency and compatibility of TEGOSTAB® B 8490 results again in excellent surface quality and low λ -value.

Packaging

840 kg pallet (4 x 210 kg in steel drums)
1 000 kg plastic containers

For Information

- on classification and labelling 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.

Legal References

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

08/2010

Evonik Industries AG Goldschmidtstraße 100 45127 Essen/Germany
Phone +49 201 173-2466, Fax +49 201 173-1991
polyurethane@evonik.com, www.evonik.com/polyurethane-additives