

Technical Information

TEGOSTAB® B 1903

Description

TEGOSTAB® B 1903 is a Si–O–C–based polyether polydimethylsiloxane copolymer which is used for the production of polyurethane rigid foams.

Typical properties*

Appearance	Yellowish liquid
Viscosity at 25 °C	1 400 mPa · s
Density at 25 °C	1.045 g/cm ³
pH value (4 % hydrous solution)	10.4

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

Application

TEGOSTAB® B 1903 mixes with all commonly applied rigid foam polyols. Its special Si–O–C structure and the fact that TEGOSTAB® B 1903 has no hydroxyl groups may cause turbidity in rigid foam systems. Such turbid systems, however, show no tendency towards separation.

TEGOSTAB® B 1903 is suitable for use in formulations for the block foaming process and/or for double band laminators.

Another special field of application for TEGOSTAB® B 1903 are voluminous molded parts where maximum foam yield (flowability) are a basic requirement.

For all these processes, the application of TEGOSTAB® B 1903 as a stabilizer reduces the danger of shrinking and promotes a fine, regular cell structure without defects.

TEGOSTAB® B 1903 is a rigid foam stabilizer based on Si–O–C–technology.

It is common knowledge that polyether polydimethylsiloxane copolymers based on this technology are hydrolysable in systems with low pH values.

For this reason, TEGOSTAB® B 1903 should not be added via the isocyanate stream.

The applied concentration of TEGOSTAB® B 1903 should be between 1.5 and 2.5 parts per 100 parts polyol.

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.
- Solidification point: about 5 °C.
- Solidification of the material due to unprotected storage in the cold season does not affect its efficiency, it will liquefy again at normal room temperature. As a precaution, the material should be stirred for a short time in such a case in order to guarantee absolute homogeneity.

Safety instructions

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

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