



Schill + Seilacher

Technical Data Sheet

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STRUKSILON 8101
Silicone Stabiliser for PU-Rigid Foam

Application Fields

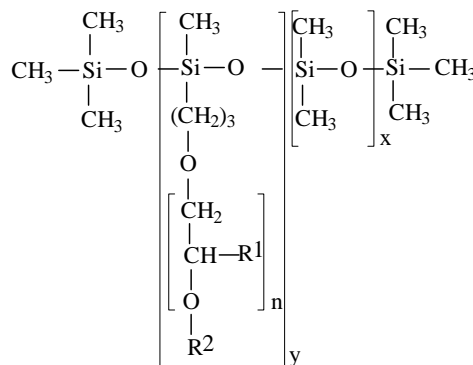
STRUKSILON 8101 is used as a silicone stabiliser for production of polyurethane rigid foam. It is especially recommended for the use in PU-1- or PU-2-component spray foam applications.

Chemical and Physical Properties

STRUKSILON 8101 is a polyether modified polydimethyl siloxane, resistant to hydrolysis. Due to the negligible content of hydroxyl or other groups reactive towards isocyanates, it is chemically inert in polyurethane formulations.

STRUKSILON 8101 is a clear to slightly turbid, colourless to slightly yellow liquid of middle viscosity and is miscible with water at room temperature.

General Chemical Structure



R¹ : H (EO); CH₃ (PO)
 R² : Alkyl
 n : 1 - 50
 x : 1 - 100
 y : 1 - 20

Typical Properties:

Viscosity at 25°C	[mPas]	1100 - 1800
Turbidity point	[°C]	app. 30
Density at 25°C	[kg/m ³]	app. 1.02 – 1.04
Flash point (DIN/ISO 2562)	[°C]	> 100
Storage stability		12 months in closed original containers if transported and stored at temperatures between 1 and 30°C.
Packaging		200 kg drums, 1000 kg containers (IBC)

The data given are typical values which are not intended for use in preparing specifications. For test methods refer to the corresponding supplement.

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Technical Properties

STRUKSILON 8101 is commonly used in the formulation of PU-1- or PU-2-component spray foams, especially in gun foam formulations.

STRUKSILON 8101 is well suited for the common blowing agents used in 1- or 2-component foam like propane/butane, 134 a, 152 and dimethylether. Generally, high foam yields and especially a fine cell structure will be achieved when using STRUKSILON 8101. In order to ensure an optimized foam quality the additional use of a suitable cell opener is recommended. STRUKSILON 8101 can be used in B2 as well as in B3 formulations according to DIN 4102.

Due to its chemical structure STRUKSILON 8101 is inert to isocyanates. Thus no loss of activity or an increase of the mixture will be observed even after long shelf life times. STRUKSILON 8101 can be mixed with most of the common polyols without problems.

Recommended Dosage

Usually, STRUKSILON 8101 is applied in quantities of 0.5 to 3 php (parts on 100 parts polyol). We recommend to adjust the optimum dosage to the corresponding formula.

Product Safety and Handling

STRUKSILON 8101 is not a hazardous material for the purposes of hazardous materials regulation.

Further information regarding safety, toxicology, special properties of the product, transport and storage are given in the material safety data sheet.

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The suggestions for application and usage of our products as well as possible proposed formulations are meant to advise only to the best of our knowledge. This information is without obligation and does not release customers from their own testings to ensure suitability for intended processes and use. Liability is only accepted in case of intention or gross negligence. Liability for any defects caused by minor negligence are not accepted. Each producer is responsible and liable to observe legislation and patent rights of third parties.

This new leaflet replaces all previously printed documentation.

Alterations reserved. 11/2005

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