



Schill + Seilacher

Technical Data Sheet

STRUKSILON 8018

Silicone Stabiliser for PU-Microcellular Foam

Application Fields

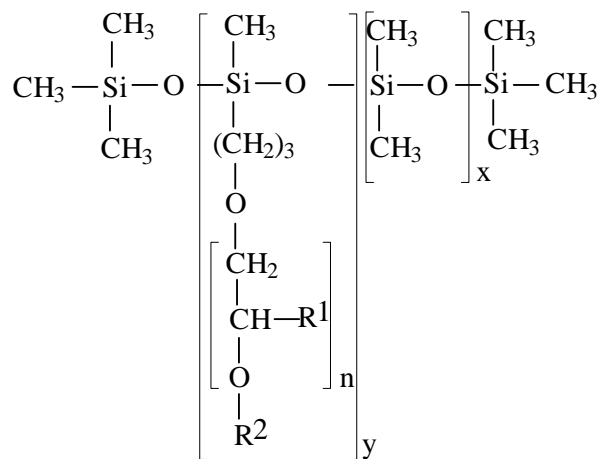
STRUKSILON 8018 is used as a silicone stabiliser for the production of polyurethane microcellular foam. It is especially recommended for shoe sole formulations based on polyester and blends of polyether/polyester polyols.

Chemical and Physical Properties

According to its chemical structure STRUKSILON 8018 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 8018 is a clear, colourless to slightly yellow liquid of middle viscosity, has strong stabiliser properties and is miscible with water at room temperature.

General Chemical Structure



R^1 : H (EO); CH_3 (PO)
 R^2 : H, Alkyl, Acetoxy
 n : 1 - 50
 x : 1 - 100
 y : 1 - 20

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

Schill + Seilacher "Struktol"
Aktiengesellschaft
Moorfleeter Str. 28
22113 Hamburg
GERMANY

Phone: +49 40 73 36 2-0
 Fax: +49 40 73 36 2-194
 E-Mail: info@struktol.de

www.struktol.de



Typical Properties

Viscosity at 25°C	[mPas]	900
Turbidity point	[°C]	37
Density at 25°C	[kg/m ³]	app. 1025
Flash point	[°C]	> 100
Refractive index at 25°C		1.450
Physiological behaviour		refer to material safety data sheet
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)

Technical Properties

Due to its chemical structure STRUKSILON 8018 can be incorporated in A as well as in B-components. STRUKSILON 8018 is compatible with isocyanate.

STRUKSILON 8018 is a very efficient silicone stabiliser for the production of microcellular foams. It provides an excellent processing window and, additionally, excellent foam properties like fine and regular cell structure and good skin formation.

STRUKSILON 8018 can be used in various shoe sole formulations in a wide density range of foams. It is especially recommended for polyester and poletcher/polyester blend based systems.

Recommended Dosage

Usually, STRUKSILON 8018 is applied in quantities of 0.5 to 1.5 php (parts on 100 parts polyol). We recommend to adjust the optimum dosage to the corresponding formula. However, a concentration of 3 php should not be exceeded.

STRUKSILON 8018 is not a hazardous material for the purposes of hazardous materials regulation. STRUKSILON 8018 does not contain aminic components.

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

Schill + Seilacher "Struktol" Aktiengesellschaft Moorfleeter Straße 28 22113 Hamburg Germany
Phone: +49 40 73362-0 Fax: +49 40 73362-194 E-Mail: info@struktol.de