



Schill + Seilacher

Technical Data Sheet

STRUKSILON 8010

Silicone Stabiliser for PU-Rigid Foam

Distributed by:

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Application Fields

STRUKSILON 8010 is a specialised stabiliser for polyurethane rigid foams. Due to its extremely good nucleating performance it is especially recommended for the production of foams with a very fine cell structure.

Chemical and Physical Properties

According to its chemical structure STRUKSILON 8010 is a polyether modified polydimethyl siloxane resistant to hydrolysis.

STRUKSILON 8010 is a clear to slightly turbid, colourless to slightly yellow liquid of middle viscosity, has strong stabiliser properties and is not miscible with water at room temperature.

General Chemical Structure

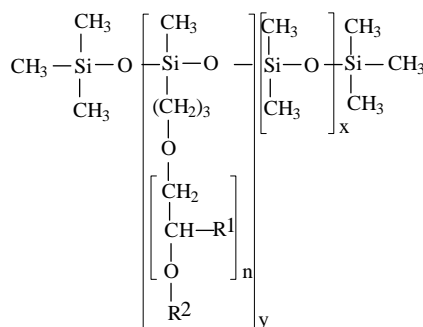
R¹ : H (EO); CH₃ (PO)

R² : 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.

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Typical Properties

Viscosity at 25°C	[mPas]	1200
Turbidity point	[°C]	< 20
Density at 25°C	[kg/m ³]	app. 1040
Flash point (DIN/ISO 2562)	[°C]	> 100
Refractive index at 25°C		1,440

Technical Properties

Due to its special chemical structure STRUKSILON 8010 has a very high nucleating potential which offers the possibility for the production of foams with extremely fine cell structure. These foams offer very good insulation properties. Hence STRUKSILON 8010 is especially recommended for applications where very good λ -values are required, like appliance application and discontinuous panel production. It is also used in pentane-blown PIR rigid foam systems.

The compatibility of STRUKSILON 8010 with HCFC and HFC is good. In pentane blown systems the compatibility especially in respect to emulsification/solubility has to be checked prior to application of STRUKSILON 8010.

Recommended Dosage

Usually, STRUKSILON 8010 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.

Product Safety and Handling

STRUKSILON 8010 is not a hazardous material for the purposes of hazardous materials regulation. STRUKSILON 8010 does not contain aminic components.

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

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Packaging, Storage and Transport

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 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.
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