



Schill + Seilacher

Technical Data Sheet

STRUKTOL VP 8031

Silicone Stabiliser for PU-Rigid Foam

Distributed by:

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Application Fields

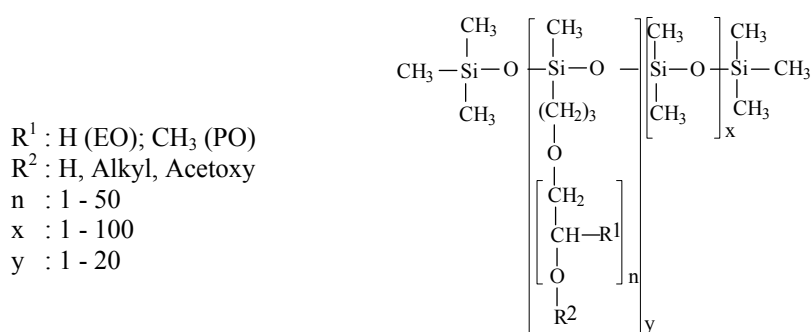
STRUKTOL VP 8031 is a silicone stabiliser for use in pentane-blown rigid polyurethane foams. STRUKTOL VP 8031 is used in the production of PUR and PIR rigid foam panels and for a range of other rigid polyurethane applications. STRUKTOL VP 8031 enables the production of PIR foam with excellent thermal insulation.

Chemical and Physical Properties

According to its chemical structure STRUKTOL VP 8031 is a polyether modified polydimethyl siloxane resistant to hydrolysis.

At room temperature STRUKTOL VP 8031 is a clear to slightly turbid, colourless to slightly brownish liquid of medium viscosity.

General chemical structure:



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]	870
Density at 25°C	[kg/m ³]	app. 1041
Flash point (DIN EN 22719) [°C]		> 100
Refractive index at 25°C		1.4435

Technical Properties

STRUKTOL VP 8031 was specifically designed for use in pentane blown rigid foam systems. STRUKTOL VP 8031 is especially recommended for n-pentane blown rigid polyisocyanurate systems used for instance in continuous PIR panel or PIR block foam manufacturing. Additionally, STRUKTOL VP 8031 is successfully applied in rigid foam systems using c/i-, n/i- or c-pentane as blowing agents.

Based on its extraordinary performance, the use of STRUKTOL VP 8031 can result in improved λ -value and thermal insulation of the foam. STRUKTOL VP 8031 shows very good emulsification properties and is thus very well suited for the production of n-pentane blown PIR panels and PIR block foam. STRUKTOL VP 8031 offers good miscibility with most of the common polyol systems.

For the production of rigid foam with maximum requirements on flame retardant properties we recommend our product STRUKSILON 8026. Additionally, for use in pentane-blown PIR-foam we recommend our products STRUKTOL VP 8032 and for use in pentane blown PUR foam our STRUKTOL VP 8028.

Recommended Dosage

Usually, STRUKTOL VP 8031 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

STRUKTOL VP 8031 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 is 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.

This new leaflet replaces all previously printed documentation.

Alterations reserved. 10/2005

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