

PUR Flexible Foam

Technical Specialist Group PUR Flexible Foam

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Introductory remarks

The following description reflects the current state of knowledge and is intended to provide a more detailed description and demarcation of the PUR flexible foam products.

Chemical characterisation

The raw materials for PUR based on mineral oil are reacted with the use of certain additives. This produces the gas carbon dioxide, which causes the mixture to foam. The individual formulation determines the properties of the finished foam – each quality has its own composition.

From a chemical point of view, polyurethane (PUR) flexible foams are polyaddition products of polyalcohols and diisocyanate which react in an exothermic reaction, controlled by blowing agents (CO₂ from the diisocyanate/water reaction) and modified using catalysts, stabilizers and other auxiliaries, to form a broad range of different foams.

The manufacturers of PUR flexible foam in the FSK do not use any blowing agents in their production, which are prohibited under EU Regulation 2037/2000 on substances that deplete the ozone layer (CFCs).

Physical data

Density	14 - 300 kg/m ³
State (20°C)	Flexible, open cell to semi-open cell foam
Decomposition temperature	> 180°C
Ignition temperature	> 315°C
Self-ignition temperature	> 370°C
Fire protection classifications	Depending on foam type
Odour	Weak inherent odour

Product safety

PUR flexible foam is neither a substance nor a preparation, but a product according to Article 3 No. 3 of EU Regulation 1907/2006 (REACH). There is no obligation to classify and label according to EU Regulation 1272/2008 (Classification, Labelling and Packaging).

PUR flexible foam is also not a hazardous product within the meaning of this EU regulation. A safety data sheet in accordance with Article 31 of EU Regulation 1907/2006 (REACH) is therefore not required.

This DOCUMENT was developed in the Specialist Association Foamed Plastics and Polyurethanes by the Technical Specialist Group PUR Flexible Foam.



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