

Nivapol Polem A 2245 FR

Characterization and Type

Castor oil-based polyester and polyether hybrid containing flame-retardant.

Form supplied

Solvent-free, liquid.

Uses

In the formulation of rigid PUR and PIR foam systems with need for extra flame-retardancy.

Solubility / thinnability

Generally speaking, Polem A 2245 FR has good compatibility with the solvents listed. However, the solutions have to be tested for their storage stability. Polem A 2245 FR can be thinned with esters, ketones, ether esters and aromatic hydrocarbons. Prolonged storage of a solution with low binder content may result in turbidity and sedimentation. Only PUR grade solvents should be used (< 0.05% water). The solvent should not contain reactive groups.

Compatibility

Generally speaking, Polem A 2245 FR is compatible with polyols and MDI, HDI polyisocyanates. Given the many different products on the market, compatibility testing is always advisable.

Properties / Applications

Polem A 2245 FR is used in formulations in combination with foam stabilizer, catalysts, chemical and/or physical blowing agents and flameretardants to form a system. These systems when crosslinked with a pMDI hardener gives rigid foam products with high insulation properties, high compression strength and excellent flame-retardancy as well as very low water uptake in the matrix.

Packing

Bulk/IBC 1000 kgs./drum 200 kgs.

Storage

When stored in originally sealed containers the product will remain stable for at least 6 months.

Labeling and REACH applications

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safetyrelevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.

Important Note

Nivapol products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies of which may be obtained on request.

Further Information

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. Nivapol has technical and practical experiences build over many years. You are welcome to call us for advice and technical assistance.

Contact details

Nivapol Technology ApS
Tvaervejen 15
5580 Noerre Aaby
Denmark
Telephone: +45 70214888
e-mail: info@nivapol.com
Webpage: www.nivapol.com

Technical data

Property	Value	Method
Hydroxyl content	5.8 ± 0,35%	DIN 53240/2
OH-number	190 ± 15 mg KOH/g	DIN EN ISO 2114
Equivalent weight	Approx. 295	
Density	1.04 g/ml ± 0,01 g/ml	DIN EN ISO 2811
Viscosity@23°C	1800 mPas ± 10%	DIN EN ISO 3219/A.3
Water content	≤ 0,2%	DIN 51777-1
Acid value	≤ 2 mg KOH/g	DIN EN ISO 2114
Renewable	56%	

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