

Formulated system

Nivapol Polem A 40 RF

B40E24

Type

Branched, castor oil-based bio polyol.

Form supplied

Solvent-free, liquid.

Uses

In the formulation of Rigid PUR/PIR block foam foamed with water.

Solubility / thinnability

Polem A 40 RF is a modified polyol and must be added water prior to use. (3.4 weight%)

Compatibility

Polem A 40RF is compatible with different MDI isocyanates. Given the many different products on the market, compatibility testing is always advisable.

Properties / Applications

In combination with MDI, Polem A 40 RF is suitable for use in the formulation of rigid PUR/PIR foam for isolation panel production etc.

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 safety-relevant 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's 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.

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Technical data	Liquid	
	Viscosity at 23°C	2800 mPa·s DIN EN ISO 3219/A.3
	OH value	325 (including water)
	Equivalent weight	173 (including water)
	Typical curing properties (MDI 200; NCO 31,5; Index 185)	
	Mixing time	20 sec.
	Pot life:	25 sec.
	Stringtime	110 sec.
	Typical data for final product	
	Density	40 g/l ISO 844
	Compression, strenght	Parallel to flow direction 286 kPa ISO 845 Perpendicular to flow direction, 1: 150 kPa ISO 845 Perpendicular to flow direction, 2: 175 kPa ISO 845
	Compression, module	Parallel to flow direction, 8,9 MPa ISO 845 Perpendicular to flow direction, 1: 2,8 MPa ISO 845 Perpendicular to flow direction, 2: 3,7 MPa ISO 845
	Shear, strenght module	100 kPa ISO 1922 2,0 kPa ISO 1922
	Tensile, strenght module	240 kPa ISO 1926 6,0 kPa ISO 1926
	Dimension stability	48 (h) at -30°C: -0,2 Vol. % ISO 2796 48 (h) at +100°C: -2,0 Vol. % ISO 2796
	Insulation property Lambda-value at 10°C	0,0024 W/m·K ISO 8301/ASTM C518 (foamed in block)
	Closed cell	Min. 90% ISO 4590
	Reaction to fire	Class E-s2d0 ISO 11925-2 & ISO 13501-1 Class B2 DIN 4102-1
	Global Warming Potential (GWP)	0
	Ozone Depletion Potential (ODP)	0
	Water uptake	<0.01%
	Renewable	18%

Please note The above technical data is a guidance reference only. Different values can be achieved depending on the choice and ratio of the MDI. Careful testing should be conducted to verify final system.

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