

Elastopor® H 1236/3

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Application

Low GWP rigid foam system for the insulation of composite sandwich panels, refrigerated display cases and cabinets. The foam produced meets the "less than 5" value for GWP, as specified by various regulatory bodies.

Chemical Characteristics

Polyol-Component: A mixture of polyols, catalysts, stabilisers, and blowing agent
Iso-Component: Polymeric diphenylmethane diisocyanate MDI (IsoPMDI 92140)

Supply

The type of supply for the components will be decided after consultation with our Sales Office.

Storage, Preparation

Polyurethane components are moisture sensitive. Therefore they must be stored at all times in sealed, closed containers. The A-component (Polyol) must be homogenised by basic stirring before processing. More detailed information should be obtained from the separate data sheet entitled "Information for in-coming material control, storage, material preparation and waste disposal" and from the component data.

Possible Hazards

The B-component (Isocyanate) irritates the eyes, respiratory organs and the skin. Sensitisation is possible through inhalation and skin contact. PMDI is harmful by inhalation. On processing these, take note of the necessary precautionary measures described in the Material Safety Data Sheets (MSDSs). This applies also for the possible dangers in using the A-component (Polyol) as well as any other components. See also our separate information sheet "Safety- and Precautionary Measures for the Processing of Polyurethane Systems." Use our Training Programme "Safe Handling of Isocyanate."

Waste Disposal

More detailed information is provided in our country-specific pamphlet.

Consumer articles, medical products

There are national and international laws and regulations to consider if it is intended to produce consumer articles (e.g. articles that necessitate food or skin contact, toys etc.) or medical objects out of BASF products. Where these do not exist, the current legal requirements of the European Union for consumer articles as well as medical products should be sufficient. Consultation with our Sales Office and our Ecology and Product Safety Department is strongly recommended.

Component Data

Characteristics	Unit	Polyol Comp.	Iso Comp.	Method
Density (20 °C)	g/cm ³	1.08	1.24	G 133-08
Viscosity (20 °C)	mPas	880	300	G 133-07
Shelf Life	Days	60	180	

Typical Processing Data

Cup test:

Characteristics	Unit	Value	Method
Component Temperature	°C	20	
Mixing Weights	g	A = 27.5 B = 32.5	
Cream Time	s	12	G 132 – 01
String Time	s	128	G 132 – 01
Rise Time	s	170	G 132 – 01
Free Rise Density	kg/m ³	32.7	G 132 – 01

Machine Processing

Characteristics	Unit	Value	Method
Mixing Ratio	Parts by weight	A:B = 100:118	
Processing Temperature	°C	20	

General advice:

It is not known whether this system is equally suitable for all types of facing layers, sheet metal and primer offered on the market. Therefore, suitability must be examined by the user in each individual case.

Typical Physical Properties

Characteristics	Unit	Measured value	Method
Density – apparent overall	kg/m ³	42.0	EN 1602
Density – apparent core	kg/m ³	40.0	EN 1602
Compression strength @ 10%	kPa	200	EN 826
Thermal conductivity @ mean 10°C	mW/mK	23.5	EN 12667
Dimensional stability 24h @ -30°C	%	<1.0	EN 1604
Dimensional stability 24h @ +70°C	%	<2.0	EN 1604
Closed cell content	%	>90	Iso 4590
Burn rate	mm/sec	<1.0	EN ISO 3582
Flammability	-	B3 F	DIN 4102, Part 1 EN 13501-1

The above properties are typical of what can be expected when Elastopor® H 1236/3 is processed using recommended procedures. The values above were obtained by foam samples produced in BASF's laboratories.

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