

## Technical Data Sheet



# Elastopor® EH 1201/47 C-A

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## Application

Elastopor EH 1201/47 C-A is a water blown two-component CFC & HCFC-free system recommended for the discontinuous production of sandwich panels with steel faced layers. This is a B3 system as per DIN 4102 Part1 for insulation thickness range from 30-150 mm and an overall density is 44 - 50 kg/m<sup>3</sup>.

## Chemical Characteristics

<b>Polyol Component</b>	<u>Guide Formulation</u>	<u>Supply</u>
Elastopor EH 1201/47 C-A	100	Type of supply will be decided after consultation with our Sales Office.
<b>Isocyanate Component</b>		
Elastopor EH 1001 C-B / Isocyanate B 1001	150	Type of supply will be decided after consultation with our Sales Office.
<b>Mixing ratio (Polyol:ISO)</b>	100:150	

## Storage And Shelf Life

The components are hygroscopic and should therefore be kept in sealed container when not in use.

	<u>Polyol</u>	<u>Isocyanate</u>
Storage temperature:	25 – 30 °C	25 – 30 °C
Shelf life:	6 Months	6 Months

## Preparation Prior To Processing

Elastopor EH 1201/47 C-A is normally processed using high & low pressure dispensing machine. Polyol and isocyanate temperatures should be maintained at 20°C to 22°C. Processing outside this range may result in substandard products due to fluctuations in chemical reactivity and flow properties.

## Possible Hazards

The B component (Isocyanate ) irritates the eyes, respiratory organs and the skin. Sensitisation is possible through inhalation and skin contact. MDI 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."

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## Waste Disposal

Please refer to the "material safety data sheet" or follow local laws and regulations.

## Specifications

Characteristics	Unit	Polyol	Isocyanate	Method
Density (20°C)	g/cm <sup>3</sup>	1.07 - 1.11	1.2 - 1.25	BIL-FG/010
Viscosity (20°C)	mPa.s	700 - 750	150 - 250	PU-FG/003

## Typical Processing Data

### Cup Test

Characteristics	Unit	Value	Method
Polyol Component Temperature	°C	20	-
Iso Component Temperature	°C	20	-
Cream Time	s	25 - 35	MMTQ/STM/PU-FM/012
Gel Time	s	120 - 140	MMTQ/STM/PU-FM/012
Free Rise Core Density	kg/m <sup>3</sup>	32 - 34	MMTQ/STM/PU-FM/012

### Machine Processing

Characteristics	Unit	Value
Mould Temperature	°C	42 - 44

## Typical Physical Properties

Characteristics	Unit	Value	Method
Core Density	kg/m <sup>3</sup>	40 - 46	DIN ISO 845
Compressive strength at 10%, vertical	kPa	180 - 220	DIN 53421
Thermal Conductivity	mW/m.K	24 - 25	DIN 52612
Flammability	-	B 3	DIN4102, part 1
Closed Cell Content	%	>90	DIN 4590

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### Receiving Control

No specific receiving control required.

### Customer 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 Polyurethanes products. Consultation with our Sales Office and our Ecology and Product Safety Department is strongly recommended.

The data contained in this document as well as advice or other support services are based on our current knowledge and experience. In view of many factors that may affect processing and application of our products, this data does not relieve processors from carrying out their own investigations and tests, particularly with regards to the suitability of the goods supplied for the processes and purposes they intend to use them for; neither does this data imply any guarantee of certain properties, or the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, measured values etc. given herein may change without prior notice and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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