

Elastopor[®] H 1701/5

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Application

PU-rigid foam system for thermal insulation of industrial installations according to the bulk-head method "in-situ" and for the filling of hollow spaces as in boats, buoys and pontoons. Suitability must be examined by the user prior to commercial use.

Chemical Characteristics

Polyol Component: mixture of polyetherpolyol, stabilizer, catalyst, flame retardant, water (blowing agent)
Iso Component: polymeric diphenylmethane diisocyanate (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.

Processing

For processing follow the information provided by our technical adviser.

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 Polyurethanes GmbH 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)	mPa·s	1500	300	G 133-07
Shelf life	days	90	180	

Processing Data

Cup test by ultrasonic method:

Characteristics	Unit	Value	Method
Component temperature	°C	20	
Quantity	g	A = 35.4 B = 40.8	
Mixing ratio	parts by weight parts by volume	A : B = 100 : 115 A : B = 100 : 100	
Stirring time	s	10	
Cream time	s	38	G 132-05
String time (hypothetical)	s	135	G 132-05
Rise time	s	200	G 132-05
Free rise density	kg/m ³	54	G 132-05

Reaction parameters determined by using a high pressure machine (p = 120 bar, T = 40 °C).

Characteristics	Unit	Value	Method
Cream time	s	17	
String time	s	76	
Free rise density	kg/m ³	46	

General advice

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

Physical Properties

Characteristics	Unit	Measured value	Method
Measured values were determined on specimens produced on a pilot plant. Verification of these properties on production plants at user's site under prevailing production conditions is required.			
Density / core	kg/m ³	54	DIN EN 1602
Compressive strength	N/mm ²	0.33	DIN EN 826
Compression	%	5	DIN EN 826
Deformation	%	0.4	DIN EN 1605 DIN 18159
Thermal conductivity at 23 °C mean temperature (aged)	mW/m-K	34.0	DIN EN 12667/Hesto
Closed cells	%	95	DIN EN ISO 4590
Flammability	-	B 3 F	DIN 4102, part 1 EN 13501-1

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The data contained in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, this data does not relieve processors from carrying out their own investigations and tests; 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 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. (Date of publication).

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