

Technical Data Sheet

Elastospray 1601/7

Page 1 / 3
Version 02
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Application

A zero ODP, low GWP (1), fully water blown, open celled polyurethane spray system. The product is used as thermal insulation of roofs and timber or steel stud framed walls.

Chemical Characteristics

A or Polyol Component: A mixture of polyols, catalysts, surfactants and water as blowing agent
B or Isocyanate Component: Polymeric diphenylmethane diisocyanate MDI (Iso PMDI 92140)

Supply

Steel drums: 200kg Polyol, 250kg Isocyanate

Storage, Preparation

Polyurethane components are moisture sensitive. Therefore they must be stored at all times in sealed, closed containers. 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

Elastospray spray foam systems can be processed through all standard two component equipment designed for this purpose. This unit must be capable of maintaining a 1:1 by volume ratio, temperatures between 30 and 60°C using pre-heaters and heated hoses and pressures between 50 and 80 bar (700 – 1200 psi). Self cleaning, impingement mix spray guns are recommended.

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. When processing MDI, take note of the necessary precautionary measures described in the Material Safety Data Sheets (MSDS). This applies also for the possible hazards 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.

Elastospray 1601/7



The Chemical Company

Page 2 / 3
Version 02
Date of Issue 31.07.2012

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's 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 the BASF Sales Office and our Ecology and Product Safety Department is strongly recommended.

Typical Component Data

	Unit	A –Comp	B –Comp.	Method
Density (20°C)	g/cm ³	1.1	1.24	G 133-08
Viscosity (20°C)	mPas	388	220	G 133-07
Storage Stability	Days	90	180	

Typical Processing Data

Cup Test

	Unit	Value	Method
Component Temperature	°C	20	
Mixing Ratio	by weight by volume	A:B = 100:110 A:B = 100:100	
Mixing Weights	g	A:B = 23.8:26.2	
Cream Time	s	5	G 132 – 01
String Time	s	10	G 132 – 01
Rise Time	s	15	G 132 – 01
Free Rise Density	kg/m ³	15.5	G 132 – 01

Machine Processing

	Unit	Value	
Mixing Ratio	by volume	A:B = 100:100	
Mixing Pressure	Bar	50 – 80	
Component Temperature	°C	50 – 60	

Typical Physical Properties

	Unit	Measured value	Method
Density – apparent overall	kg/m ³	18-20	EN 1602
Thermal conductivity (Initial)	W/(m·K)	0.037	EN 12667
Global Warming Potential		1	Blowing agent derivation
Ozone Depletion Potential		0	Blowing agent derivation

The above properties are typical of what can be expected when Elastospray 1601/7 is processed using recommended procedures. The values above were obtained by foam samples produced in BASF laboratories.

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