

# Elastoflex® W 5165/149

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## Application

2-component polyurethane system for the production of seat cushions and backrests of office chairs.

## Chemical Characteristics

**Polyol-Component:** Preparation based on: polyol, catalyst, stabilizer, additives  
**Iso-Component:** Preparation based on: Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)  
= Iso 135/144

## 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. 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."

## 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 (25°C)	g/cm <sup>3</sup>	1.02	1.16	G 133-08
Viscosity (25°C)	mPa·s	-	180	G 133-07
NCO-content	%	-	27.3	G 133-06
Shelf-life	months	6	3	
Recommended storage temperature	°C	20 - 25	20 - 25	
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**Typical Processing Data**
**Cup Test**

Characteristics	Unit	Value	Method
Component temperature	°C	23	
Weight	g	A = 31.6    B = 23.4	
Start time	s	11	G 132-01
Rise time	s	80	
Free rise density	kg/m <sup>3</sup>	46	

**Machine Processing**

Characteristics	Unit	Value	Method
Mixing ratio	parts by weight	A = 100    B = 74	
Processing temperature	°C	23 - 28	
Mould temperature	°C	40 - 50	

**Typical Physical Properties**

Characteristics	Unit	Measured value	Method
Mixing ratio 100 : x	parts per weight	A = 100      B = 78	
Density of core	kg/m <sup>3</sup>	52	DIN EN ISO 845
Compression set (50%, 70°C, 22 h)	%	8.6	DIN EN ISO 1856
Tensile strength	kPa	165	DIN EN ISO 1798
Elongation at break	%	77	
Compressive strength (40 %)	kPa	9.5	DIN EN ISO 3386
Tear resistance (Graves)	N/mm	0.39	DIN ISO 34-1, B (b)

**Typical Polymer  
Fire Behavior**

Numerical flame spread or fire classification are not intended to reflect hazards presented by this or any other material under actual fire conditions. Norms are suitable for MVSS 302 norm.

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