

## General product information

# Elastollan® 685 A U

®= Registered Trademark of Elastogran GmbH

Elastogran



■ • BASF Group

### Characteristic:

Transparent, thermoplastic Polyester-Polyurethane-Elastomer with excellent mechanical properties and wear resistance, good damping characteristic and high resilience performance. Processable by injection moulding and extrusion.

Property	Unit	Value	Test method according to
Hardness	Shore A	<b>85</b>	DIN 53505
Density	g/cm <sup>3</sup>	<b>1,21</b>	DIN EN ISO 1183-1-A
Tensile strength	MPa	<b>50</b>	DIN 53504-S2
Elongation at break	%	<b>600</b>	DIN 53504-S2
Stress at 20 % elongation	MPa	<b>2,8</b>	DIN 53504-S2
Stress at 100 % elongation	MPa	<b>5,5</b>	DIN 53504-S2
Tear strength	N/mm	<b>75</b>	DIN ISO 34-1Bb
Abrasion loss	mm <sup>3</sup>	<b>40</b>	DIN ISO 4649-A
Compression set at room temperature	%	<b>25</b>	DIN ISO 815
Compression set at 70 °C	%	<b>45</b>	DIN ISO 815
Tensile strength after storage in water at 80°C for 21 days	MPa	<b>40</b>	DIN 53504-S2
Elongation at break after storage in water at 80°C for 21 days	%	<b>650</b>	DIN 53504-S2
Notched impact strength (Charpy) + 23°C - 30°C	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	<b>no break</b> <b>no break</b>	DIN EN ISO 179-1
Flammability rating	-	<b>HB</b>	UL 94

Test plaques are manufactured by injection moulding from pre-dried granules (water content of ≤0,02%). Test plaques are aged 20 hrs at 100°C. Specimens are cut from test plaques. Test conditions: 23°C ± 2°C and 50% ± 6% rel. humidity.

The states values are typical test results and not limiting specification values.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

## General product information

### Elastollan® 685 A U

®= Registered Trademark of Elastogran GmbH



#### Storage and handling:

Elastollan® is hygroscopic, therefore storage in dry conditions and original container is recommended. Further information about drying, processing temperatures and post-treatment are given in our product brochure „Thermoplastic Polyurethane Elastomers (TPU) Elastollan®- Processing Recommendations“.

#### Chemical Characteristics:

Polymer based on: polyurethane, stabilizing agents and additives

#### Delivery form and packing:

Lentil shaped pellets  
Bags, 25 kg net  
Oktabins with PE liner bags, 1000 kg net

#### Processing:

Processable at least for 6 months from delivery date in original sealed containers with cool dry storage.

#### Hazard indication:

No particular hazards known.  
Please look at the Material Safety Data Sheet before handling.

#### Waste Disposal:

More detailed information is provided in our country-specific information and the Material Safety Data Sheet.

#### Important Information:

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 from Elastogran products. Where specific regulations do not exist, the current legal requirements of the European Union for consumer articles as well as medical products should be used as reference. Consultation with the Elastogran Sales Office and our Ecology and Product Safety Department is strongly recommended.

The data contained in this document shall constitute the agreed contractual quality of the product at the time of passing of risk. The data is reviewed at regular intervals as part of our quality assurance program. Neither this data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or fitness for a specific purpose. No liability may therefore be derived from the data contained herein.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！