

## General product information

# Elastollan® 1170 A U



### Characteristic:

Plasticizer-free, UV-stabilized Thermoplastic Polyether-Polyurethane-Elastomer with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms. Processable by injection moulding and extrusion.

Property	Unit	Value	Test method according to
Hardness	Shore A	72	DIN 53505
Density	g/cm <sup>3</sup>	1,08	DIN EN ISO 1183-1-A
Tensile strength	MPa	25	DIN 53504-S2
Elongation at break	%	850	DIN 53504-S2
Stress at 20 % elongation	MPa	1,3	DIN 53504-S2
Stress at 100 % elongation	MPa	2,0	DIN 53504-S2
Stress at 300 % elongation	MPa	4,8	DIN 53504-S2
Tear strength	N/mm	44	DIN ISO 34-1Bb
Abrasion loss	mm <sup>3</sup>	35	DIN ISO 4649-A
Compression set at room temperature	%	24	DIN ISO 815
Compression set at 70 °C	%	50	DIN ISO 815
Notched impact strength (Charpy) + 23°C - 30°C	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	no break no break	DIN EN ISO 179-1

Test specimen are cut from plates of thickness 2mm and 6mm which are injection moulded and then tempered for 20 hrs at 100°C. Before injection moulding granules are pre-dried to water content of ≤0,02%. Mechanical testing is done at 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！

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### 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.

### Consumer articles, medical products:

There are national and international laws and regulations to considering consumer articles (e.g. articles with direct food contact, toys etc.) or medical objects out of Elastogran 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 Elastogran Tech. Service, our Ecology and Product Safety Department is strongly recommended.

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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 programme. 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.

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