

# Elastollan® 1170 A

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

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## Technical Data

### Product Description

Thermoplastic Polyether Polyurethane Elastomers with outstanding hydrolysis resistance, low temperature flexibility and resistance to micro-organisms.

Typical applications

Cable jackets, plugs and terminations, spiral tubing, Films, ski-boot shells, ear tags, technical mouldings like mining screens, railway pads, seals.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Elastollan (English)</a> • <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">BASF Polyurethanes GmbH</a> • <a href="#">Elastollan®</a>
Availability	• Europe
Features	• Hydrolysis Resistant • Low Temperature Flexibility • Microbe Resistant
Uses	• Cable Jacketing • Molded Ear Tags • Sporting Goods • Film • Plugs • Tubing • Mining Applications • Seals
Processing Method	• Blow Molding • Extrusion • Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.08 g/cm <sup>3</sup>	ISO 1183/A

Mechanical	Nominal Value Unit	Test Method
Abrasion Loss	< 50.0 mm <sup>3</sup>	ISO 4649-A

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		DIN 53504
20% Strain	1.30 MPa	
100% Strain	2.00 MPa	
300% Strain	4.80 MPa	
Tensile Stress (Yield)	30.0 MPa	DIN 53504
Tensile Elongation (Break)	850 %	DIN 53504
Tear Strength <sup>3</sup>	44 kN/m	ISO 34-1
Compression Set		ISO 815
23°C, 72 hr	24 %	
70°C, 24 hr	50 %	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-30°C	No Break	
23°C	No Break	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A, 3 sec)	71	ISO 7619

Injection	Nominal Value Unit
Processing (Melt) Temp	170 to 240 °C
Mold Temperature	20.0 to 70.0 °C

Extrusion	Nominal Value Unit
Melt Temperature	160 to 220 °C



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### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Method Bb, Angle (Nicked)



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### Where to Buy

#### Supplier

##### **BASF Polyurethanes GmbH**

, Germany

**Telephone:** +49-5443-12-0

**Web:** <http://www.polyurethanes.basf.eu/pu/solutions/en/>

#### Distributor

##### **Distrupol Ltd**

*Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*

**Telephone:** 08452003040

**Web:** <http://www.distrupol.com/>

**Availability:** Denmark, Finland, Ireland, Norway, Sweden, United Kingdom

##### **ESSE International - OMYA**

*ESSE International - OMYA is a Pan European distribution company. Contact ESSE International - OMYA for availability of individual products by country.*

**Telephone:** +33-1-30-80-56-56

**Web:** <http://www.omya.com>

**Availability:** Europe, Turkey

