

Elastollan® 1170 A

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

PROSPECTOR®

www.ulprospector.com

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 ¹	• Processing - Elastollan (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• BASF Polyurethanes GmbH • Elastollan®		
Availability	• Europe		
Features	• Hydrolysis Resistant	• Low Temperature Flexibility	• Microbe Resistant
Uses	• Cable Jacketing • Film • Mining Applications	• Molded Ear Tags • Plugs • Seals	• Sporting Goods • Tubing
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

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

Mechanical	Nominal Value Unit	Test Method
Abrasion Loss	< 50.0 mm ³	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 ³	44.0 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 to 70 °C

Extrusion	Nominal Value Unit
Melt Temperature	160 to 220 °C

Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ 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

Biesterfeld

Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.

Telephone: +49-40-32008-0

Web: <http://www.biesterfeld-plastic.com/>

Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Tunisia, Turkey

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

