Elastollan® 1170 A
Thermoplastic Polyurethane Elastomer (Polyether)
BASF Polyurethanes GmbH

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
- Sporting Goods
- Tubing

Uses

- Cable Jacketing
- 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/cm³ | ISO 1183/A |

Mechanical

| Nominal Value | Unit | Test Method |
| Abrasion Loss | < 50.0 mm³ | ISO 4649-A |

Elastomers

| Nominal Value | Unit | Test Method |
| Tensile Stress | 20% Strain: 1.30 MPa  
100% Strain: 2.00 MPa  
300% Strain: 4.80 MPa |
| Tensile Stress (Yield) | 30.0 MPa |
| Tensile Elongation (Break) | 850 % |
| Tear Strength ³ | 44 kN/m |
| Compression Set | 23°C, 72 hr: 24 %  
70°C, 24 hr: 50 % |

Impact

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

Hardness

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

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

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)
Where to Buy

Supplier

BASF Polyurethanes GmbH
- Germany
- Telephone: +49-5443-12-0

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