

# Elastollan® 1185 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 <sup>1</sup>     | • <a href="#">Processing - Elastollan (English)</a><br>• <a href="#">Technical Datasheet (English)</a>                          |
| UL Yellow Card <sup>2</sup> | • <a href="#">E140250-222870</a>  |
| Search for UL Yellow Card   | • <a href="#">BASF Polyurethanes GmbH</a><br>• <a href="#">Elastollan®</a>  |
| Availability                | • Europe  |
| Features                    | • Hydrolysis Resistant<br>• Low Temperature Flexibility<br>• Microbe Resistant  |
| Uses                        | • Cable Jacketing<br>• Film<br>• Mining Applications<br>• Molded Ear Tags<br>• Plugs<br>• Seals<br>• Sporting Goods<br>• Tubing |
| Processing Method           | • Blow Molding<br>• Extrusion<br>• Injection Molding  |

| Physical | Nominal Value Unit     | Test Method |
|----------|------------------------|-------------|
| Density  | 1.12 g/cm <sup>3</sup> | ISO 1183/A  |

| Mechanical    | Nominal Value Unit   | Test Method |
|---------------|----------------------|-------------|
| Abrasion Loss | 25.0 mm <sup>3</sup> | ISO 4649-A  |

| Elastomers                 | Nominal Value Unit | Test Method |
|----------------------------|--------------------|-------------|
| Tensile Stress             |                    | DIN 53504   |
| 20% Strain                 | 2.50 MPa           |             |
| 100% Strain                | 6.00 MPa           |             |
| 300% Strain                | 10.0 MPa           |             |
| Tensile Stress             |                    | DIN 53504   |
| Yield                      | 45.0 MPa           |             |
| Yield <sup>4</sup>         | 32.0 MPa           |             |
| Tensile Elongation (Break) | 600 %              | DIN 53504   |
| Tear Strength <sup>5</sup> | 70.0 kN/m          | ISO 34-1    |
| Compression Set            |                    | ISO 815     |
| 23°C, 72 hr                | 25 %               |             |
| 70°C, 24 hr                | 45 %               |             |

| 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 |                    | ISO 7619    |
| Shore A, 3 sec | 87                 |             |
| Shore D, 3 sec | 36                 |             |

| Flammability | Nominal Value Unit | Test Method |
|--------------|--------------------|-------------|
| Flame Rating | HB                 | UL 94       |

| Injection              | Nominal Value Unit |
|------------------------|--------------------|
| Processing (Melt) Temp | 170 to 240 °C      |
| Mold Temperature       | 20 to 70 °C        |



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## Extrusion

## Nominal Value Unit

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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> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> after storage in water at 80°C for 42 days

<sup>5</sup> Method Bb, Angle (Nicked)



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### Where to Buy

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#### Supplier

**BASF Polyurethanes GmbH**

, Germany

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

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

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#### Distributor

**Channel Prime Alliance**

**Telephone:** 800-247-8038

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

**Availability:** North America

**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

