

# Elastollan® C 95 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties. Outstanding tensile strength and high elongation at break, good damping characteristics, a high resilience performance and very good wear resistance.

### Typical applications

Spiral tubing, pneumatic tubing, round belting, technical mouldings e.g. bushes, dust caps, seals, joints, blow moulded bellows, fan belts.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Elastollan (English)</a> • <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E140250-100728234</a>
Search for UL Yellow Card	• <a href="#">BASF Polyurethanes GmbH</a> • <a href="#">Elastollan®</a>
Availability	• Europe
Features	• High Elongation • High Tensile Strength • Resilient • Wear Resistant
Uses	• Belts/Belt Repair • Bushings • Caps • Seals • Tubing
Processing Method	• Blow Molding • Extrusion • Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.21 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	8.00 MPa	
100% Strain	11.0 MPa	
300% Strain	22.0 MPa	
Tensile Stress		DIN 53504
Yield	55.0 MPa	
Yield <sup>4</sup>	40.0 MPa	
Tensile Elongation		DIN 53504
Break	550 %	
Break <sup>4</sup>	500 %	
Tear Strength <sup>5</sup>	120 kN/m	ISO 34-1
Compression Set		ISO 815
23°C, 72 hr	30 %	
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	96	
Shore D, 3 sec	47	

Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94



## Elastollan® C 95 A

Thermoplastic Polyurethane Elastomer (Polyester)

**BASF Polyurethanes GmbH**

# PROSPECTOR®

[www.ulprospector.com](http://www.ulprospector.com)

Injection	Nominal Value Unit
Processing (Melt) Temp	170 to 240 °C
Mold Temperature	20 to 70 °C
Extrusion	Nominal Value Unit
Melt Temperature	150 to 230 °C

### 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 for 21 days at 80°C

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



## Elastollan® C 95 A

Thermoplastic Polyurethane Elastomer (Polyester)

**BASF Polyurethanes GmbH**

# PROSPECTOR®

[www.ulprospector.com](http://www.ulprospector.com)

### 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

##### **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:** France

