

Elastollan® B 95 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

PROSPECTOR®

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Technical Data

Product Description

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good tensile strength, good damping and resilience performance and superior low temperature flexibility.

Typical applications

Sport-shoe soles and accessories, Skiboot shells, technical mouldings, e.g. seals, castor tyres, tubing.

Certain UV stabilised B grades are available on request

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	• Low Temperature Flexibility	• Resilient	• Wear Resistant
Uses	• Footwear • Seals	• Sporting Goods • Tubing	
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.22 g/cm ³	1.22 g/cm ³	ISO 1183/A

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Abrasion Loss	30.0 mm ³	30.0 mm ³	ISO 4649-A

Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			DIN 53504
20% Strain	1020 psi	7.00 MPa	
100% Strain	1450 psi	10.0 MPa	
300% Strain	3190 psi	22.0 MPa	
Tensile Stress			DIN 53504
Yield	7980 psi	55.0 MPa	
Yield ³	5800 psi	40.0 MPa	
Tensile Elongation			DIN 53504
Break	550 %	550 %	
Break ³	500 %	500 %	
Tear Strength ⁴	570 lbf/in	100 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72 hr	30 %	30 %	
158°F (70°C), 24 hr	40 %	40 %	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	95 ft·lb/in ²	200 kJ/m ²	
73°F (23°C)	No Break	No Break	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness			ISO 7619
Shore A, 3 sec	96	96	
Shore D, 3 sec	48	48	

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	374 to 428 °F	190 to 220 °C
Mold Temperature	68 to 122 °F	20 to 50 °C



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Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	356 to 446 °F	180 to 230 °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 after storage in water for 21 days at 80°C

⁴ 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 Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH 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: Europe, Turkey

