

# Elastollan® B 90 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

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 Information			
Features	Good Wear Resistance		
	Low Temperature Flexibility		
	Resilient		
Uses	Footwear		
	Seals		
	Sporting Goods		
	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
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 7619
Shore A, 3 sec	91		
Shore D, 3 sec	42		
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm <sup>3</sup>	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	4.00	MPa	
100% Strain	7.00	MPa	
300% Strain	20.0	MPa	
Tensile Stress			DIN 53504
Yield <sup>1</sup>	40.0	MPa	
Yield	55.0	MPa	
Tensile Elongation <sup>2</sup> (Break)	550	%	DIN 53504

Tear Strength <sup>3</sup>	90	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	40	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	20.0 to 50.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 230	°C	
NOTE			
1.	after storage in water for 21 days at 80°C		
2.	after storage in water for 21 days at 80°C		
3.	Method Bb, Angle (Nicked)		

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