

# Elastollan® C 90 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

## Message:

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 Information			
Features	Good Wear Resistance		
	High Elongation		
	High Tensile Strength		
	Resilient		
Uses	Belts/Belt Repair		
	Bushings		
	Caps		
	Seals		
	Tubing		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm <sup>3</sup>	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 7619
Shore A, 3 sec	93		
Shore D, 3 sec	41		
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	7.00	MPa	
100% Strain	9.00	MPa	
300% Strain	15.0	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>	95	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	170 to 240	°C	
Mold Temperature	20.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 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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