

Elastollan® S 90 A

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, good damping and resilience performance and excellent tear strength.

Typical applications

Shoe soles, top pieces, tubes, technical parts e.g. castor tyres.

General Information			
Features	Good Tear Strength		
	Good Wear Resistance		
	Resilient		
Uses	Footwear		
	Tubing		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	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	30.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	6.00	MPa	
100% Strain	9.00	MPa	
300% Strain	13.0	MPa	
Tensile Stress (Yield)	55.0	MPa	DIN 53504
Tensile Elongation (Break)	600	%	DIN 53504
Tear Strength ¹	95	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	
Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Injection	Nominal Value	Unit
Processing (Melt) Temp	175 to 240	°C
Mold Temperature	20.0 to 70.0	°C
Extrusion	Nominal Value	Unit
Melt Temperature	175 to 220	°C
NOTE		
1.	Method Bb, Angle (Nicked)	

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