

# Elastollan® C 98 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.

Extrusion quality for pneumatic tubing

General Information	
UL YellowCard	E140250-222874
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	1.22	g/cm <sup>3</sup>	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	52		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	160	MPa	ISO 527-2
Abrasion Loss	30.0	mm <sup>3</sup>	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	11.0	MPa	
100% Strain	14.0	MPa	
300% Strain	26.0	MPa	
Tensile Stress			DIN 53504
Yield <sup>1</sup>	40.0	MPa	

Yield	50.0	MPa	
Tensile Elongation <sup>2</sup> (Break)	550	%	DIN 53504
Tear Strength <sup>3</sup>	130	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	30	%	
70°C, 24 hr	50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	25	kJ/m <sup>2</sup>	
23°C	No Break		
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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<br>at 80°C |
| 2. | after storage in water for 21 days<br>at 80°C |
| 3. | Method Bb, Angle (Nicked)                     |

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