

Elastollan® C 60 AP

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Technical Data

Product Description

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

Additive	• Plasticizer		
Features	• High Elongation • High Tensile Strength	• Resilient • Wear Resistant	
Uses	• Belts/Belt Repair • Bushings	• Caps • Seals	• Tubing
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.15 g/cm ³	ISO 1183/A

Mechanical	Nominal Value Unit	Test Method
Abrasion Loss	50.0 mm ³	ISO 4649-A

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		DIN 53504
20% Strain	1.00 MPa	
100% Strain	2.40 MPa	
300% Strain	5.00 MPa	
Tensile Stress (Yield)	38.0 MPa	DIN 53504
Tensile Elongation (Break)	1000 %	DIN 53504
Tear Strength ³	40.0 kN/m	ISO 34-1
Compression Set		ISO 815
23°C, 72 hr	21 %	
70°C, 24 hr	37 %	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A, 3 sec)	60	ISO 7619

Injection	Nominal Value Unit
Processing (Melt) Temp	170 to 240 °C
Mold Temperature	20 to 70 °C

Extrusion	Nominal Value Unit
Melt Temperature	150 to 230 °C

