

Elastollan® B 60 A ESD

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		
Appearance	Clear/Transparent		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	63		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	60.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	1.00	MPa	
100% Strain	2.50	MPa	
300% Strain	6.50	MPa	
Tensile Stress			DIN 53504
Yield ¹	25.0	MPa	
Yield	30.0	MPa	
Tensile Elongation			DIN 53504
Break ²	900	%	

Break	800	%	
Tear Strength ³	50	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	20	%	
70°C, 24 hr	30	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+7	ohms·cm	IEC 60093
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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