

# Elastollan® B 60 D

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
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Uses	Footwear Seals Sporting Goods Tubing
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Processing Method	Blow Molding Extrusion Injection Molding
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Physical	Nominal Value	Unit	Test Method
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Density	1.23	g/cm <sup>3</sup>	ISO 1183/A
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Hardness	Nominal Value	Unit	Test Method
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Shore Hardness (Shore D, 3 sec)	60		ISO 7619
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Modulus	240	MPa	ISO 527-2
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Abrasion Loss	25.0	mm <sup>3</sup>	ISO 4649-A
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Elastomers	Nominal Value	Unit	Test Method
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Tensile Stress			DIN 53504
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20% Strain	13.0	MPa	
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100% Strain	16.0	MPa	
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300% Strain	30.0	MPa	
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Tensile Stress			DIN 53504
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Yield <sup>1</sup>	40.0	MPa	
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Yield	55.0	MPa	
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Tensile Elongation			DIN 53504
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Break <sup>2</sup>	450	%	
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Break	500	%	
Tear Strength <sup>3</sup>	150	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	35	%	
70°C, 24 hr	45	%	
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m <sup>2</sup>	
23°C	No Break		
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	20.0 to 50.0	°C	
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	180 to 230	°C	
<b>NOTE</b>			

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| 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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