Elastollan® B 64 D

(TPU-ARES) BASF Polyurethanes GmbH

Product Texts

DESCRIPTION
Elastollan B 64 D is a polyester based TPU

SPECIAL PROPERTIES
good wear performance, good damping behavior and rebound elasticity
at good flexibility at low temperature, good tensile strength

TYPICAL APPLICATIONS
skiing boots, shoe applications, damping elements

OTHER HINTS
predrying: 2-3h at 100-110°C
(air circulating oven or dehumidified air dryer),
max. content of humidity before processing: 0,02%
annealing: 20 h at 100°C in order to get optimum properties

CHEMICAL RESISTANCE
For detailed information on the chemical resistance of our
materials refer to this list of chemical resistance

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**320**	MPa	ISO 527
[C] Stress at 50% strain	**17**	MPa	ISO 527
[C] Strain at break	**>50**	%	ISO 527
[C] Stress at 100% elongation	**19**	MPa	ISO 527
[C] Stress at 300% elongation	**35**	MPa	ISO 527
[C] Stress at break TPE	**55**	MPa	ISO 527
[C] Strain at break TPE	**>300**	%	ISO 527
[C] Compression set at 23 °C, 24h	**35**	%	ISO 815
[C] Compression set at 70 °C, 24h	**50**	%	ISO 815
[C] Tear strength	**180**	kN/m	ISO 34-1
[C] Abrasion resistance	**25**	mm³	ISO 4649
[C] Shore D hardness	**59**	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Glass transition temperature, 10°C/min	**-20**	°C	ISO 11357-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Comparative tracking index	**600**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1240**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**235**	°C	ISO 294
Injection Molding, mold temperature	**60**	°C	ISO 294

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
Barrel temperature : 215 - 230 °C
Melt temperature : 230 °C
Mold temperature: 25 - 40 °C