

**Product Texts**

## DESCRIPTION

Elastollan 590 A is a polyester based TPU

## SPECIAL PROPERTIES

good abrasion resistance

## TYPICAL APPLICATIONS

roller tyres for conveyor systems and shopping trolleys, heel taps

## OTHER HINTS

predrying: 2-3h at 100 bis 110°C,

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
<b>ISO Data</b>			
<sup>[C]</sup> Stress at 50% strain	7	MPa	ISO 527
<sup>[C]</sup> Strain at break	>50	%	ISO 527
<sup>[C]</sup> Stress at 100% elongation	11	MPa	ISO 527
<sup>[C]</sup> Stress at 300% elongation	19	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	50	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	>300	%	ISO 527
<sup>[C]</sup> Tear strength	100	kN/m	ISO 34-1
<sup>[C]</sup> Abrasion resistance	35	mm <sup>3</sup>	ISO 4649
<sup>[C]</sup> Shore A hardness	94	-	ISO 7619-1
<sup>[C]</sup> Shore D hardness	39	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Glass transition temperature, 10°C/min	-16	°C	ISO 11357-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Density	1250	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	215	°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 : 200 - 215 °C

Melt temperature : 215 °C

Mold temperature: 25 - 40 °C