

# Elastollan® R 6000

## Thermoplastic Polyurethane Elastomer (Polyester)

### Elastogran GmbH

#### Product Description

Glass fibre reinforced thermoplastic Polyester-Polyurethane with exceptional properties, very high impact resistance, high modulus with at the same time elasticity, low coefficient of thermal expansion comparable with steel and aluminium, low mould shrinkage and ease of painting. Processable by injection moulding.

#### General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber Reinforcement, 26% Filler by Weight
Additive	• Unspecified Stabilizer
Features	• High Impact Resistance      • Low Shrinkage      • Paintable
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm <sup>3</sup>	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6400	MPa	ISO 527-2
Tensile Stress (Yield)	114	MPa	ISO 527-2
Tensile Strain (Break)	7.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1
-30°C	12	kJ/m <sup>2</sup>	
23°C	21	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1U
-30°C	67	kJ/m <sup>2</sup>	
23°C	84	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	166	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	124	°C	ISO 75-2/Af

#### Additional Information

Test conditions: 23°C ± 2°C and 50% ± 6% rel. humidity.

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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