

Product Texts

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	30 % glass fibres, 15 % PTFE, 2 % silicone
Special Features	improved sliding / wear, heat stabilised, high stiffness
Market Segment	Automotive, Machinery
Application Area	gear wheels, roller bearings
Typical Applications	functional components, bearings and sliding elements

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9800	MPa	ISO 527
^[C] Stress at break	115	MPa	ISO 527
^[C] Strain at break	2.6	%	ISO 527
^[C] Charpy impact strength, +23°C	50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	214	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	212	°C	ISO 306

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1630	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, Near East/Africa

Other text information**Injection molding**

Pre-Drying Conditions in a dry air (dessiccant) dryer 100-120 °C
 for 2-4 h
 in an air circulating dryer 100-120 °C
 for 4-8 h
 dependant on moisture content

Processing Injection Moulding melt temperature 250-270 °C
 mould temperature 80-120 °C

Storage dry, protected from light
 not above 30°C