

Product Texts

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

Processing/Physical Characteristics

	Value	Unit	Test Standard
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ISO Data

^[C] Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties

	Value	Unit	Test Standard
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ISO Data

^[C] Tensile Modulus	10400	MPa	ISO 527
^[C] Stress at break	125	MPa	ISO 527
^[C] Strain at break	2.8	%	ISO 527
^[C] Charpy impact strength, +23°C	60	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
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ISO Data

^[C] Temp. of deflection under load, 1.80 MPa	210	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	214	°C	ISO 306

[C]: CAMPUS

Other properties

	Value	Unit	Test Standard
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^[C] Density	1650	kg/m ³	ISO 1183
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[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Regional Availability

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

Other text information**Injection molding**

Pre-Drying Conditions	in a dry air (desiccant) 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