

ECOMID® B GF50 BK 2000/1A

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Product information

Resin Identification	PA6-GF50	ISO 1043
Part Marking Code	>PA6-GF50<	ISO 11469

Typical mechanical properties

	dry/cond.		
Tensile modulus	16300 / 10000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	185 / 115	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8 / 5.5	%	ISO 527-1/-2
Flexural modulus	15500 / 9500	MPa	ISO 178
Flexural strength	290 / 180	MPa	ISO 178
Charpy notched impact strength, 23°C	12 / 17.5	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 / 0.34 ^[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	213 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	218 / *	°C	ISO 75-1/-2

Physical/Other properties

	dry/cond.		
Density	1560 / -	kg/m ³	ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.15 %
Melt Temperature Optimum	250 °C
Min. melt temperature	235 °C
Max. melt temperature	280 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C
Max. mould temperature	120 °C

Characteristics

Processing	Injection Moulding
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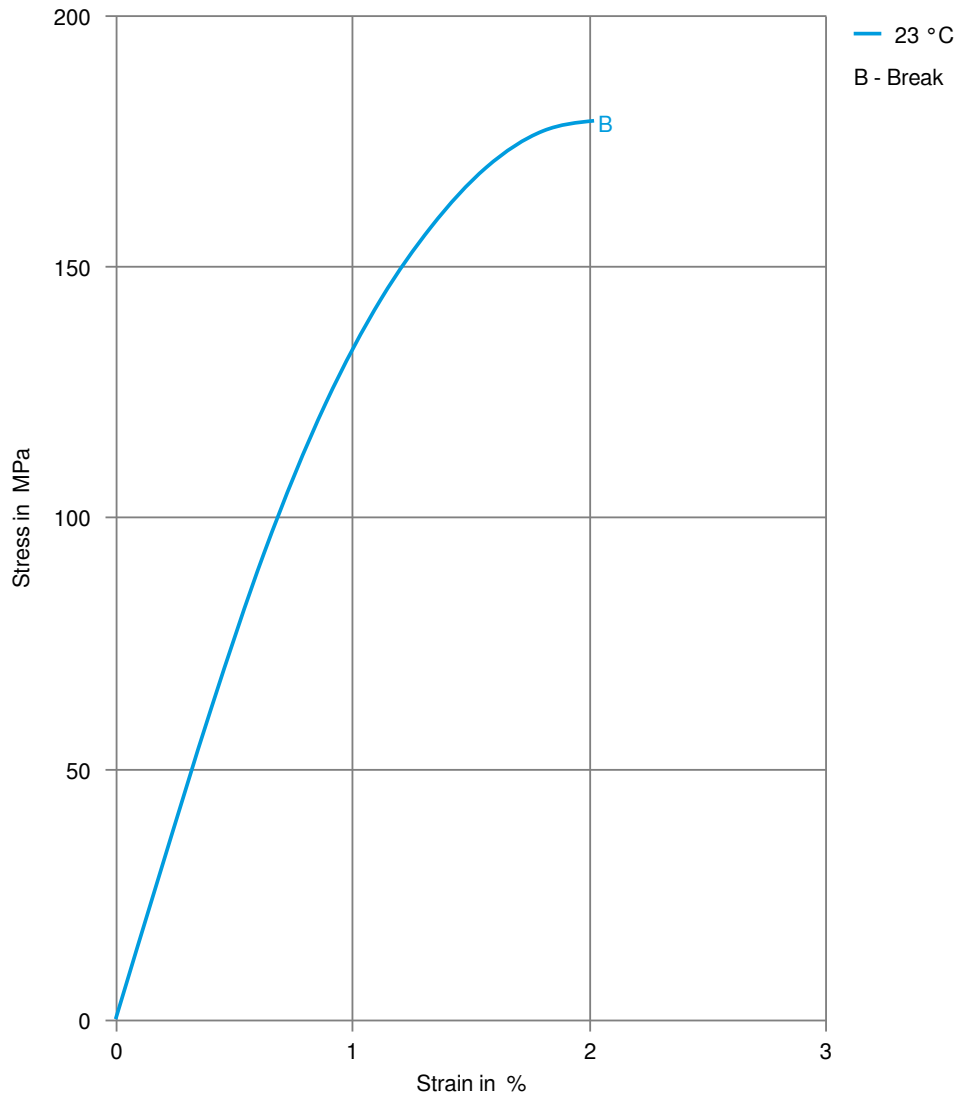
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 50125	*Best Fitting Grade To PA6-10, Not Officially Approved

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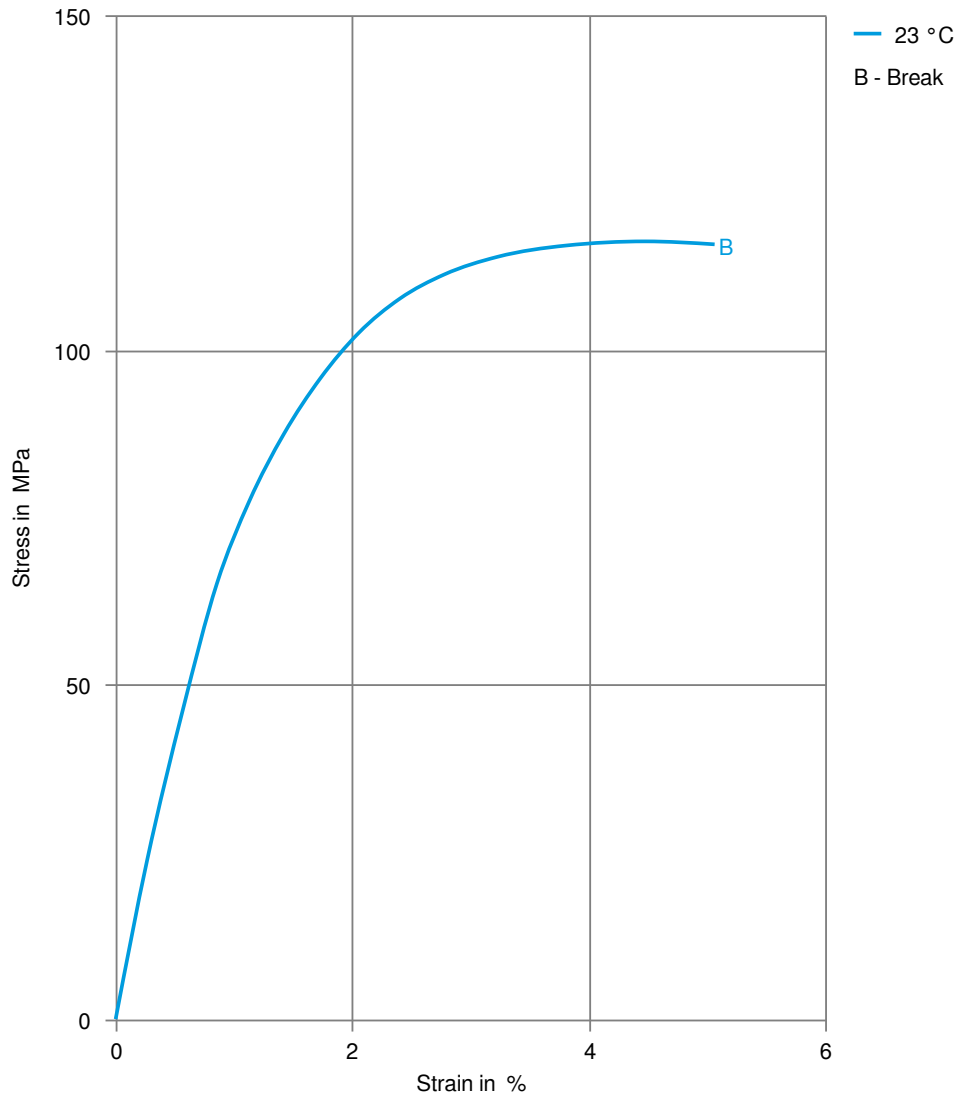
Stress-strain (dry)



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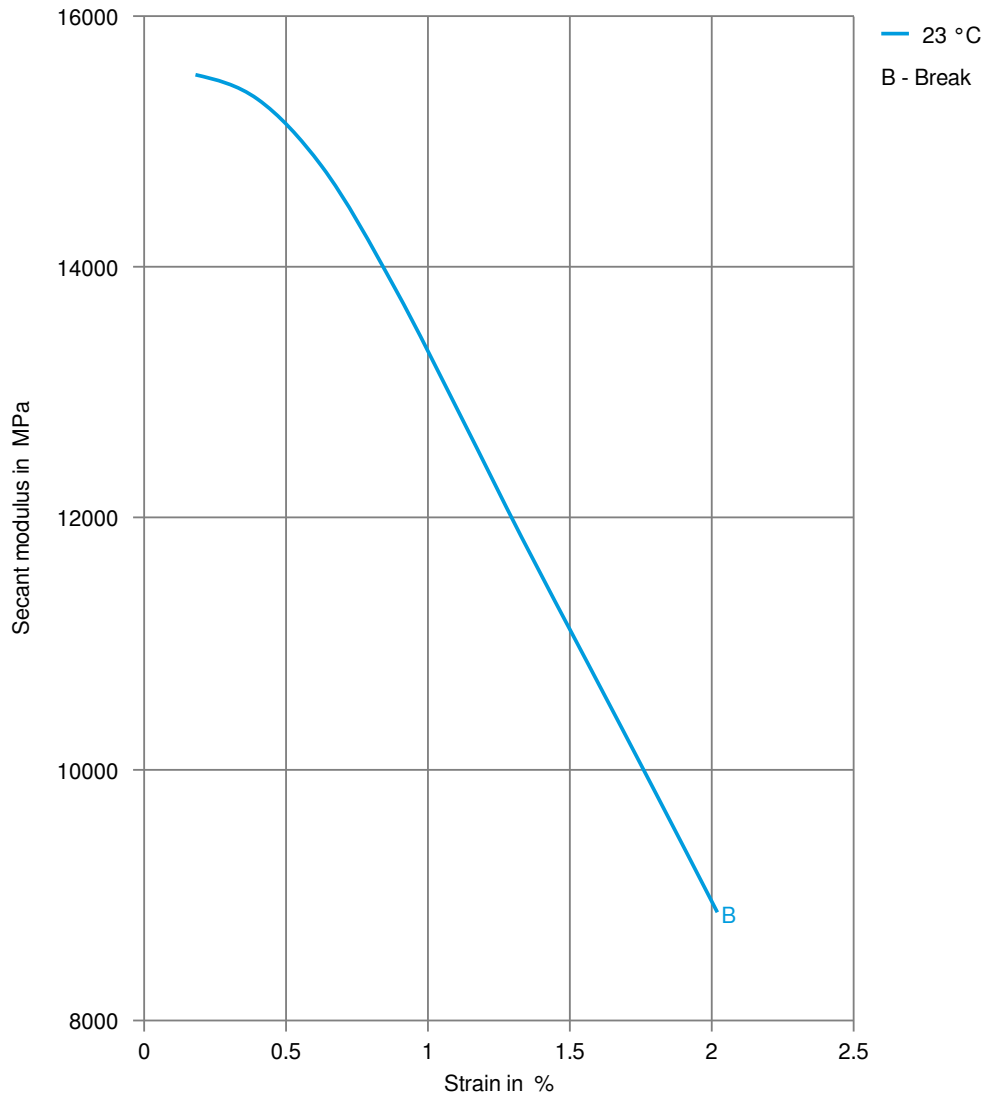
Stress-strain (cond.)



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Secant modulus-strain (dry)



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Secant modulus-strain (cond.)

