

TECNOPRENE® AK6HI

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Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, high impact resistance

Product information

Resin Identification	PP-GF30	ISO 1043
Part Marking Code	>PP-GF30<	ISO 11469

Rheological properties

Melt mass-flow rate	2.8 g/10min	ISO 1133
Melt mass-flow rate, Temperature	230 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.2 - 0.4 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.8 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	6700 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	90 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5 %	ISO 527-1/-2
Flexural modulus	6200 MPa	ISO 178
Flexural strength	140 MPa	ISO 178
Charpy impact strength, 23°C	55 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	12 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.35 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	147 °C	ISO 75-1/-2
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Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	IEC 60695-11-10
Burning Behav. at thickness h	HB class	IEC 60695-11-10
Thickness tested	3.2 mm	IEC 60695-11-10
FMVSS Class	B	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	64.3 mm/min	ISO 3795 (FMVSS 302)

Electrical properties

Comparative tracking index	400	IEC 60112
Comparative tracking index, 100 drops	350	IEC 60112

Physical/Other properties

Density	1130 kg/m ³	ISO 1183
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VDA Properties

Thermal desorption analysis of organic emissions	29.6 µg/g	VDA 278
Odour	2.5 class	VDA 270
Fogging, G-value (condensate)	0.29 ^[1] mg	ISO 6452
[1]: test standard = DIN 75201 method B, @100°C		

Injection

Ejection temperature	114 °C
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Characteristics

Processing	Injection Moulding
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Additional information

Processing Notes

Storage

This product should be stored in a covered facility and kept away from moisture and heat.

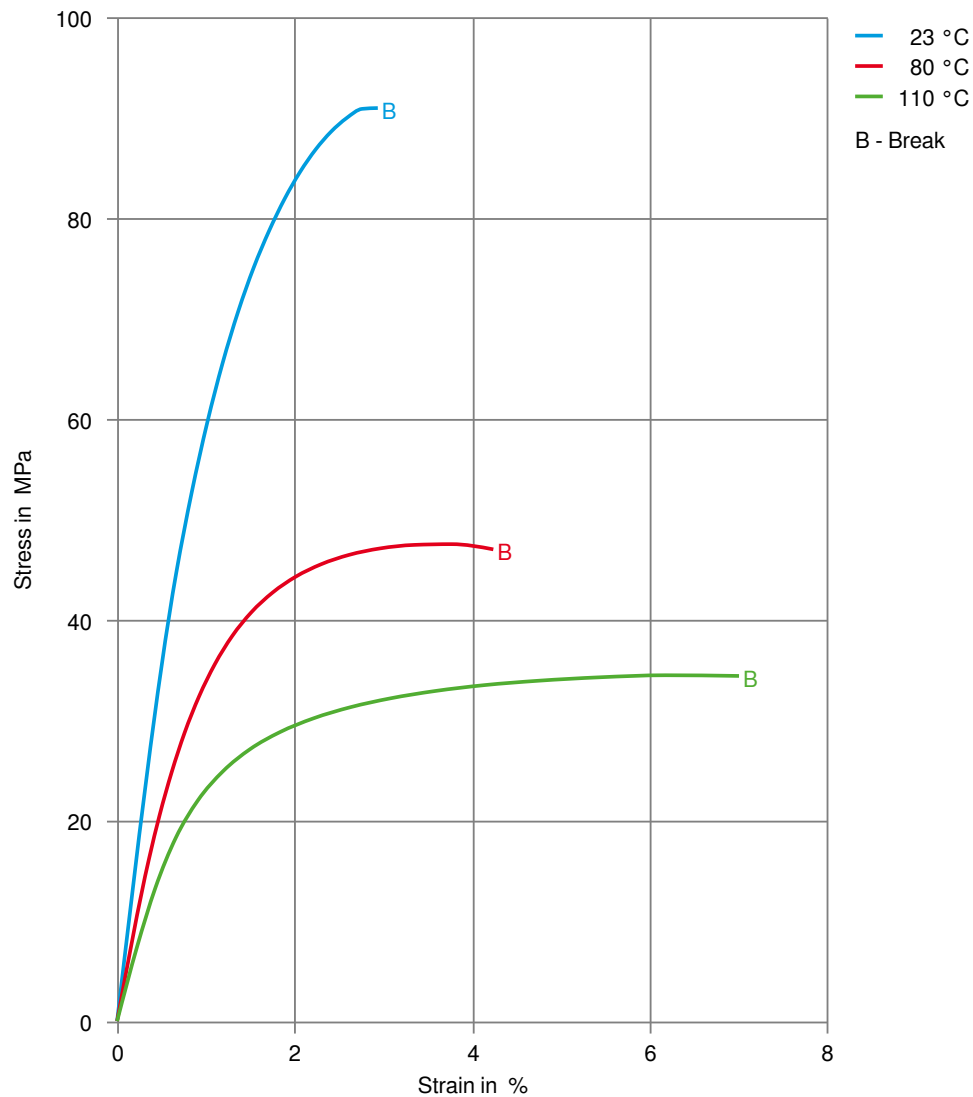
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN09-GF008	Natural
Bosch	N28 BN09-GF008	Black
General Motors	GMW16607P-PP-GF30	
Mercedes-Benz	DBL5416	
Stellantis	B62 0300 / 61/210M+/215E+/C1B	01994_10_00282

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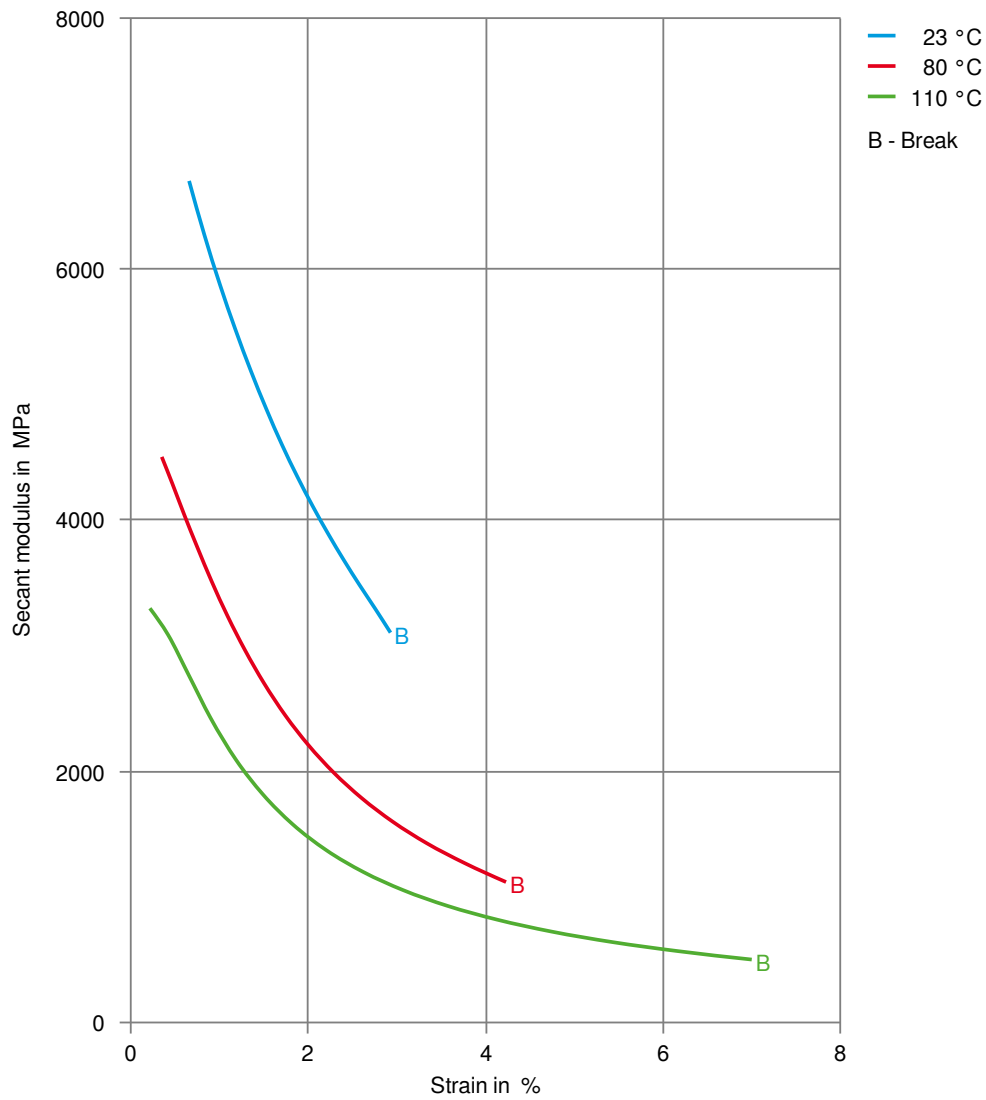
Stress-strain



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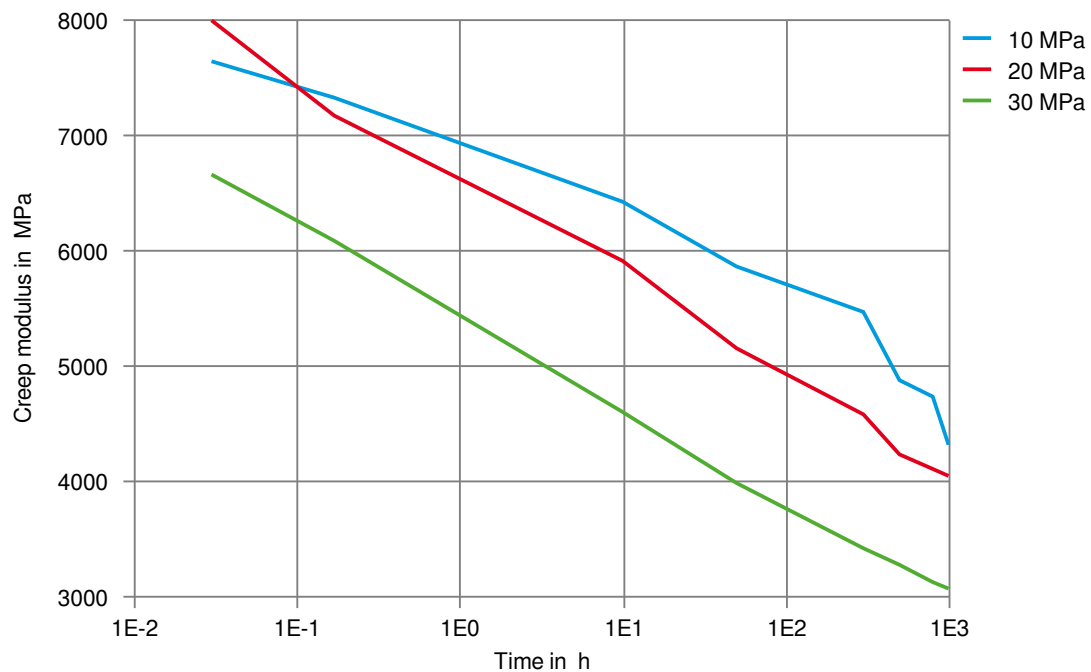
Secant modulus-strain



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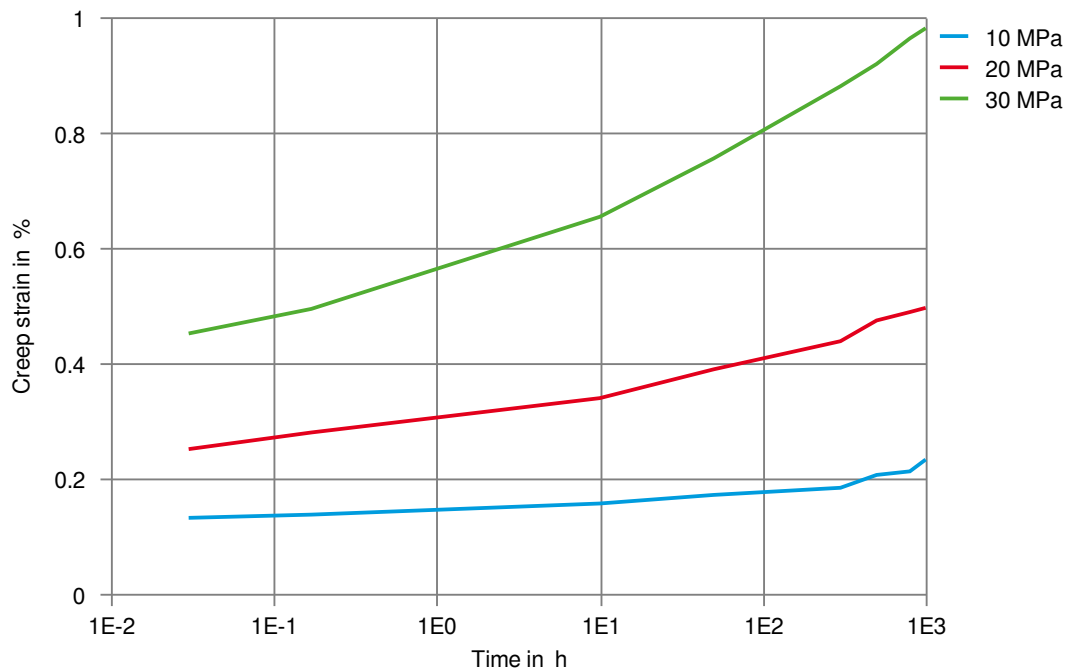
Creep modulus-time 23°C



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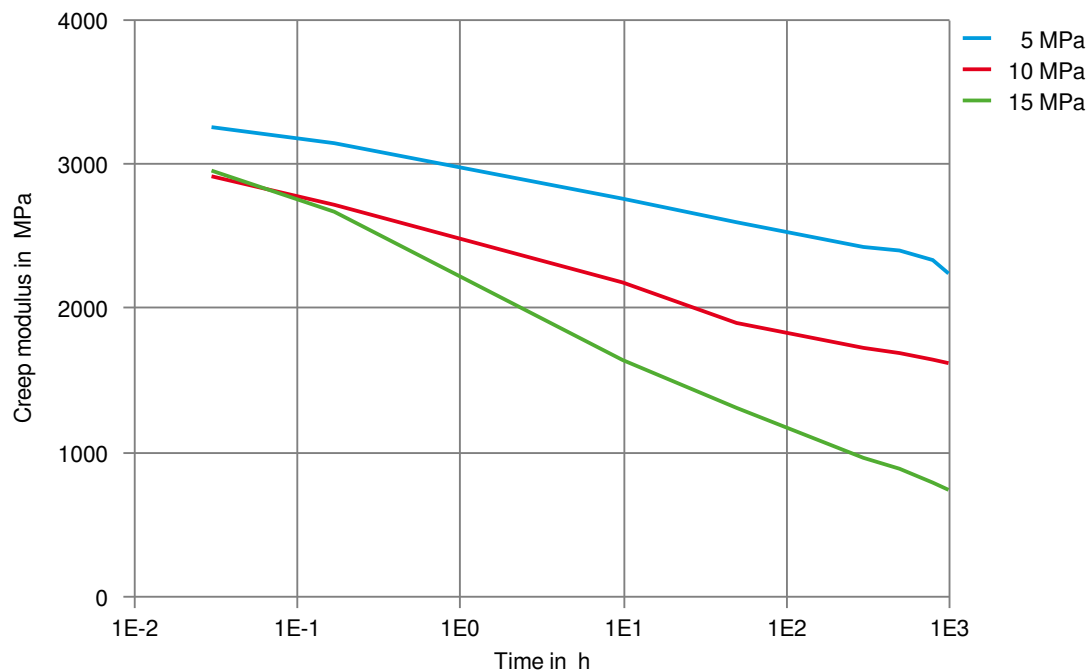
Creep strain-time 23°C



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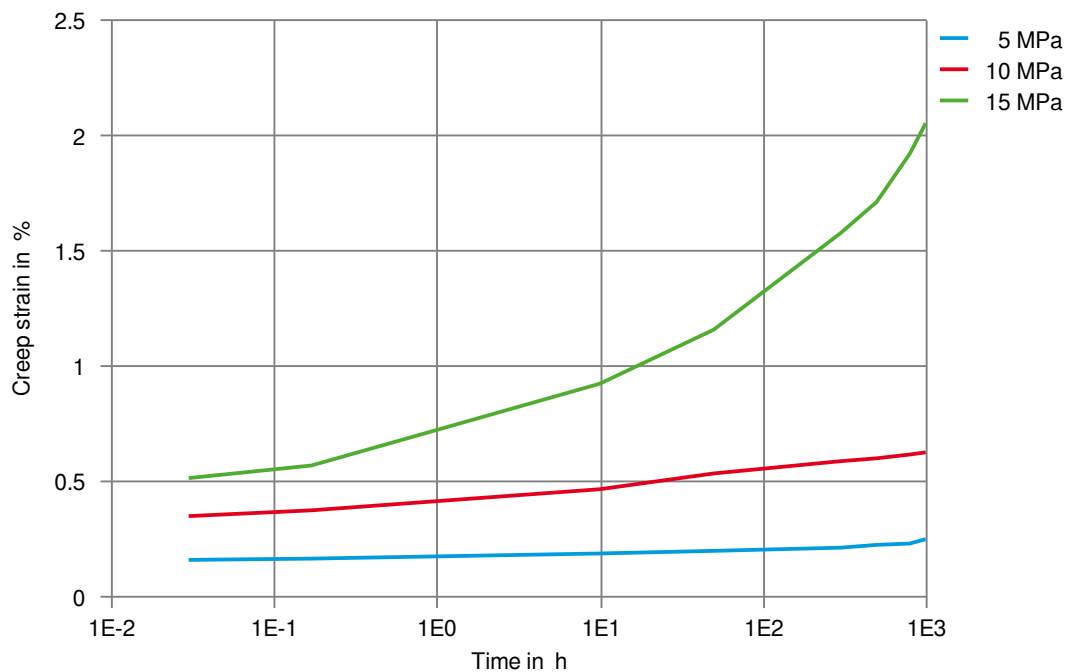
Creep modulus-time 90°C



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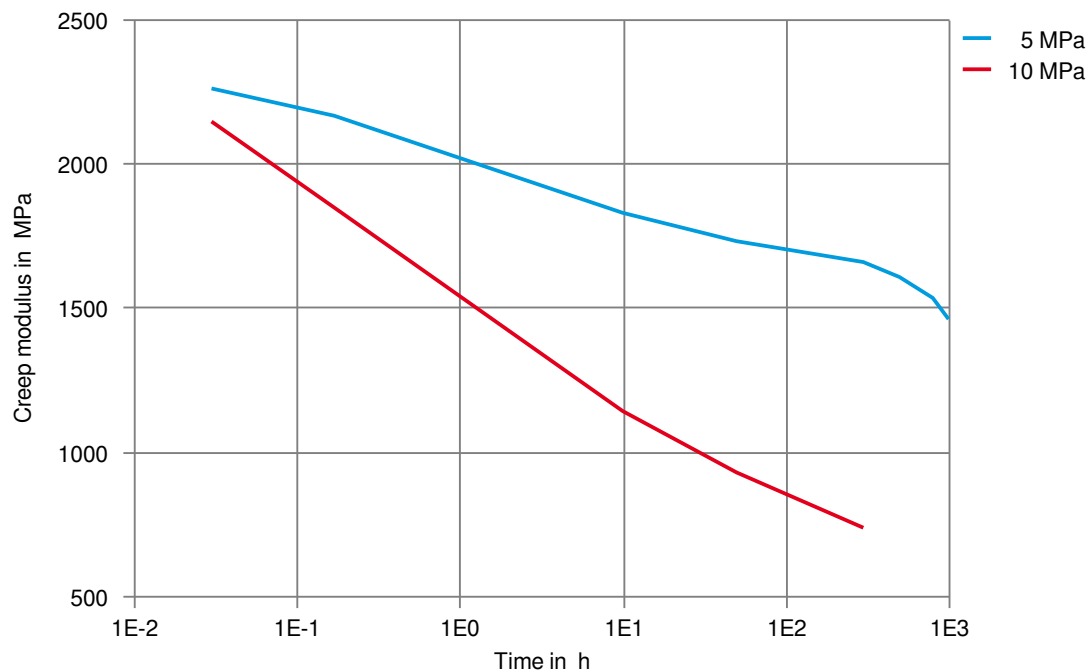
Creep strain-time 90 °C



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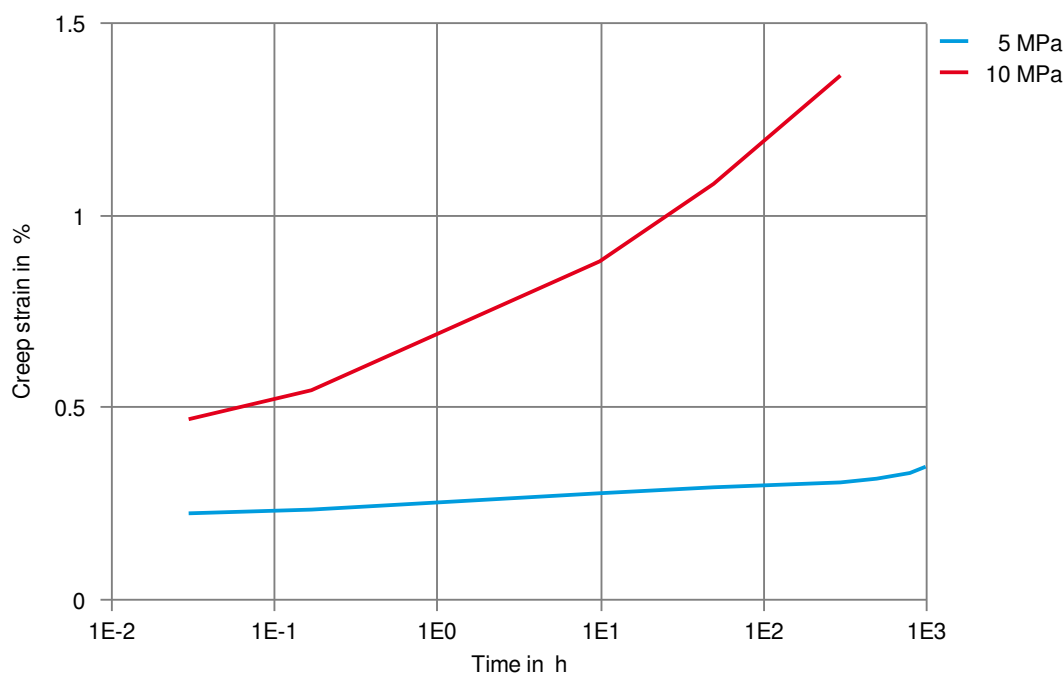
Creep modulus-time 120°C



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Creep strain-time 120 °C



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