

CELANYL® A3 H NC 1102/1

Rheological properties

Moulding shrinkage range, parallel	1.0 - 1.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.0 - 1.5 %	ISO 294-4, 2577

Typical mechanical properties

Typical mechanical properties		dry/cond.	
Tensile Modulus	3350 / 1575	MPa	ISO 527-1/-2
Yield stress, 50mm/min	85 / 58	MPa	ISO 527-1/-2
Yield strain, 50mm/min	4.3 / 20	%	ISO 527-1/-2
Strain at break, 50mm/min	10 / >50 -- / >50	%	ISO 527-1/-2
Flexural Modulus	3300 / 1240	MPa	ISO 178
Flexural Strength	105 / 35	MPa	ISO 178
Charpy notched impact strength, 23 °C	4 / 12.5	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23 °C	4 / -	kJ/m ²	ISO 180/1A

Thermal properties

Temp. of deflection under load, 1.8 MPa	66 °C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	204 °C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-2 class	UL 94
FMVSS Class	SE	ISO 3795 (FMVSS 302)

Other properties

Density	1140 kg/m ³	ISO 1183
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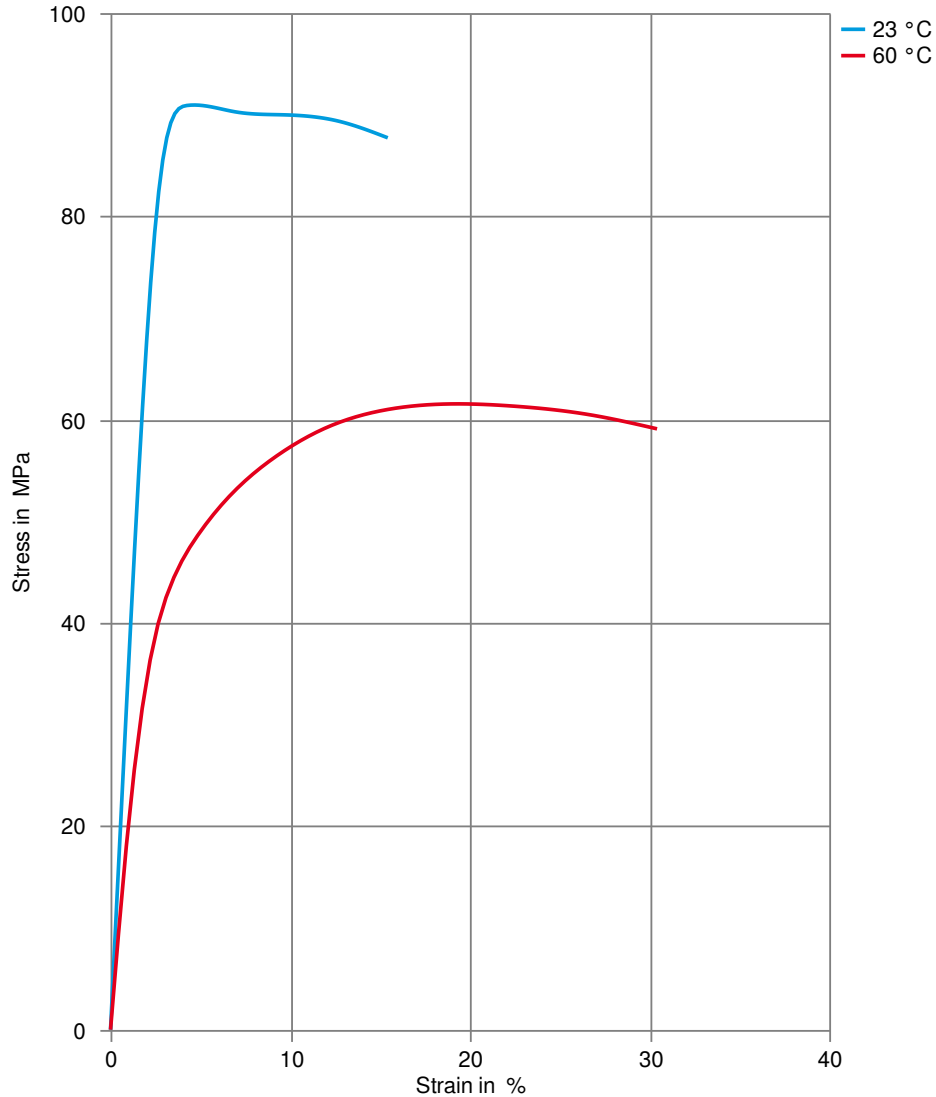
Injection

Drying Temperature	80 - 90 °C
Drying Time, Dehumidified Dryer	4 - 8 h
Processing Moisture Content	0.15 %
Max. mould temperature	60 - 80 °C



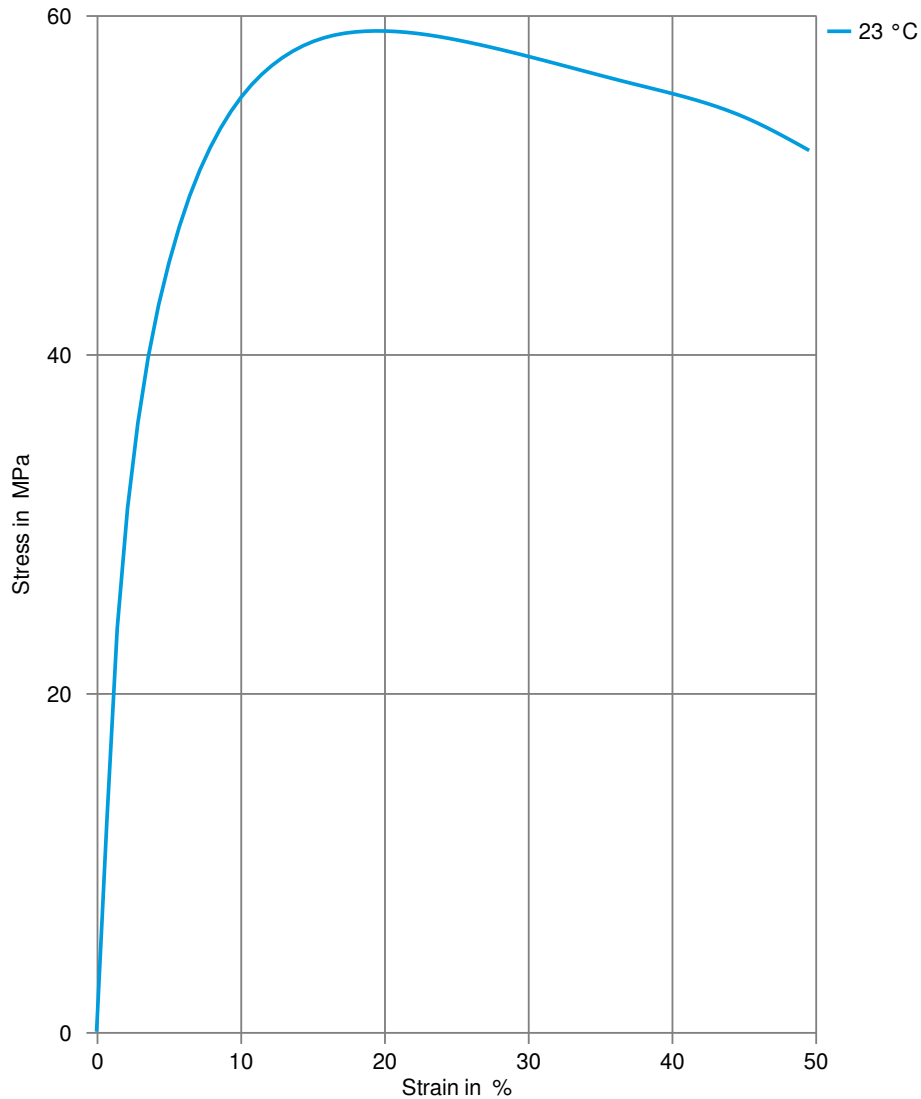
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Stress-strain (dry)



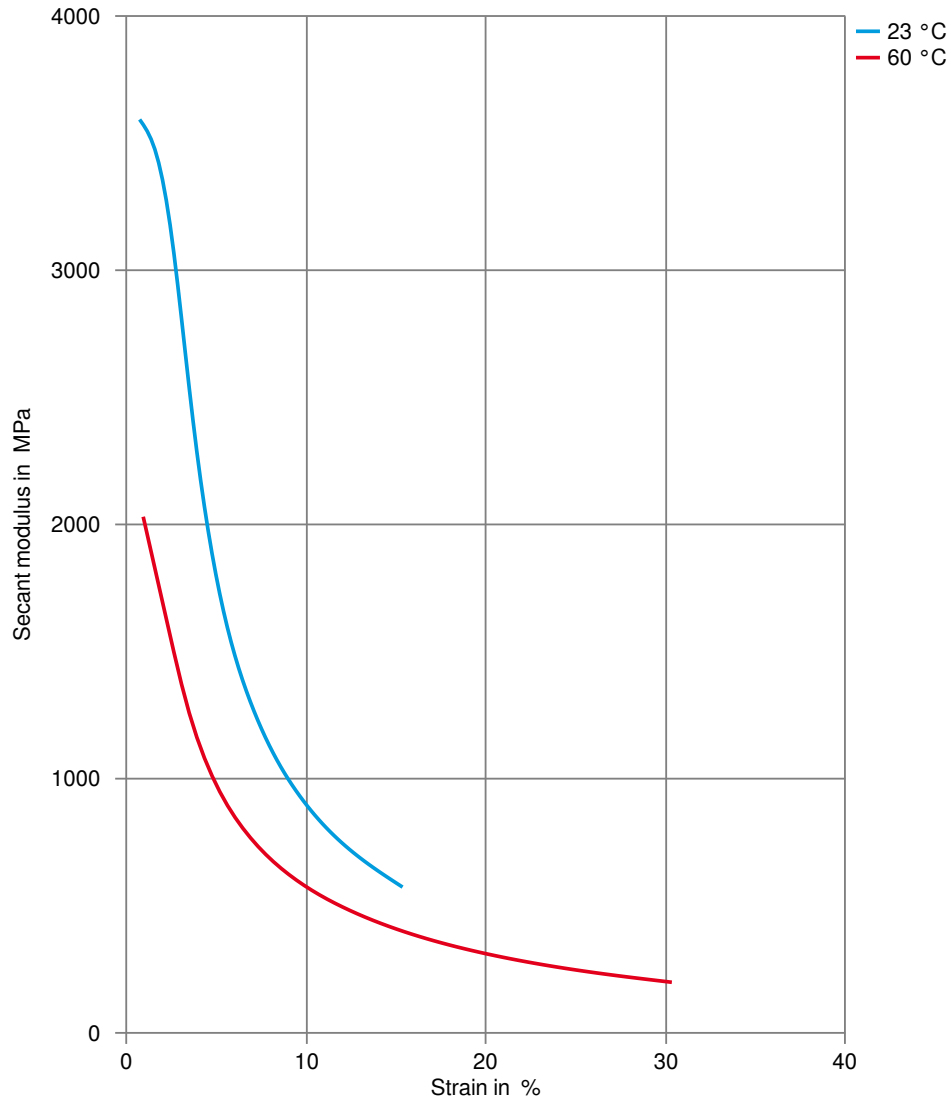
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Stress-strain (cond.)



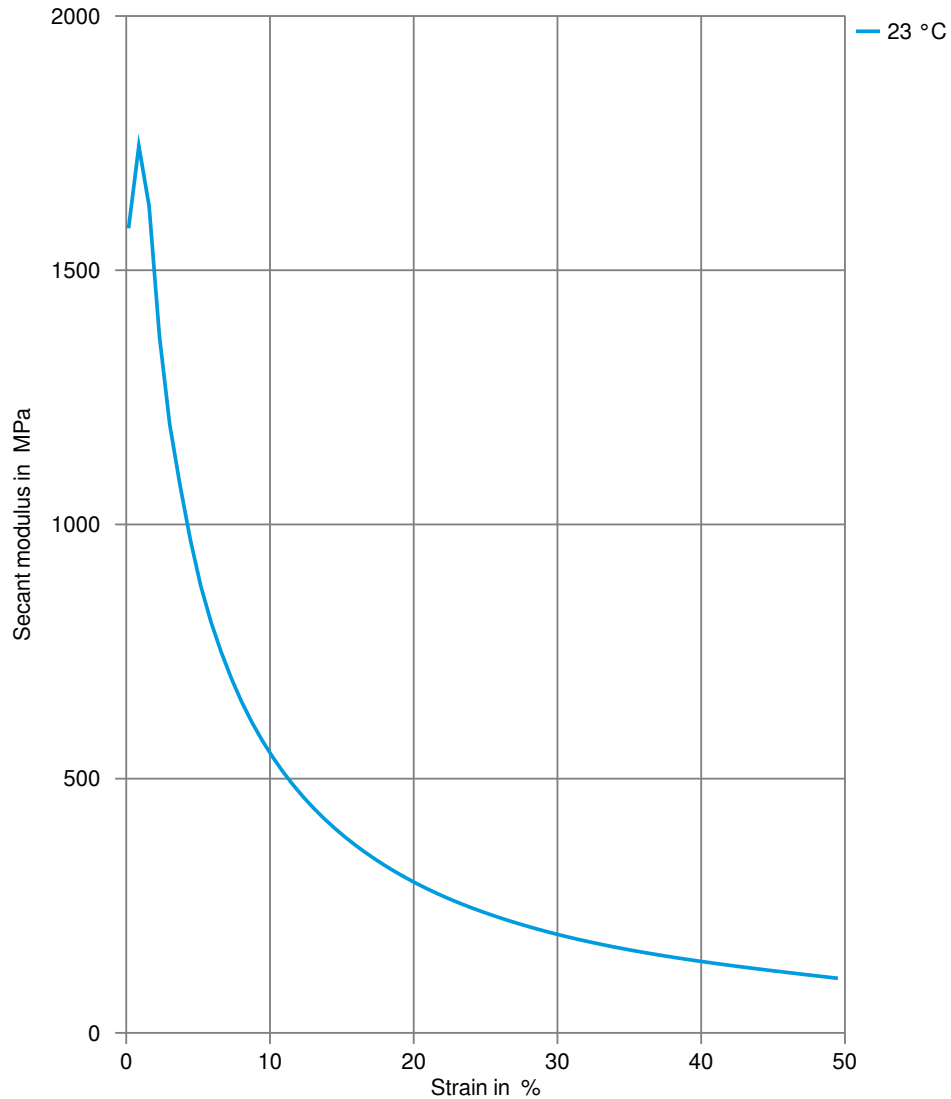
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Secant modulus-strain (dry)



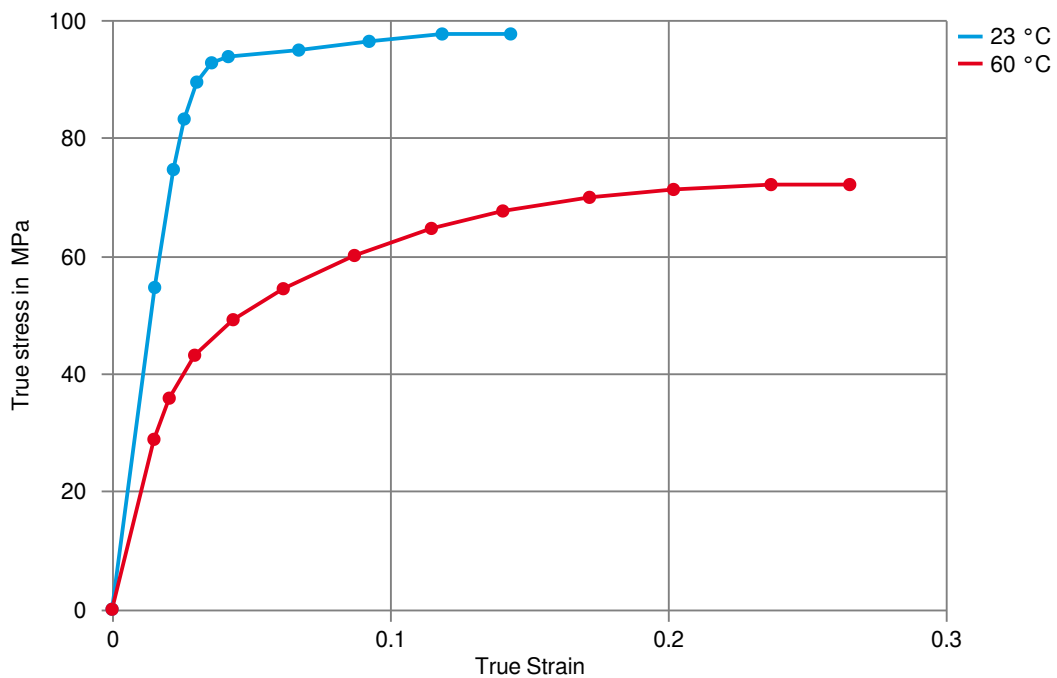
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Secant modulus-strain (cond.)



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True stress-strain (dry)



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True stress-strain (cond.)

