Technyl® C 246SI V30

PA6-GF30 Solvay Engineering Plastics

Product Texts

Polyamide 6, reinforced with 30 % of glass fibre, with high impact resistance, for injection moulding.

Having good mechanical properties, this grade is used in all sectors of industry.

This product is available in natural and black.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

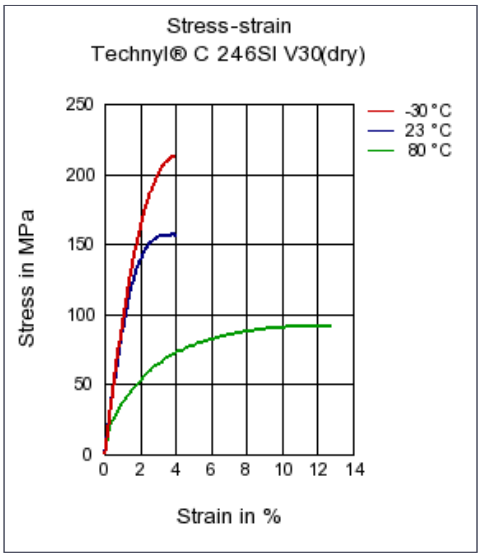
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8300 / 4900	MPa	ISO 527-1/-2
Stress at break	140 / 90	MPa	ISO 527-1/-2
Strain at break	4.5 / 10	%	ISO 527-1/-2
Charpy impact strength (+23°C)	92 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	23 / 36	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	15 / 15	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3

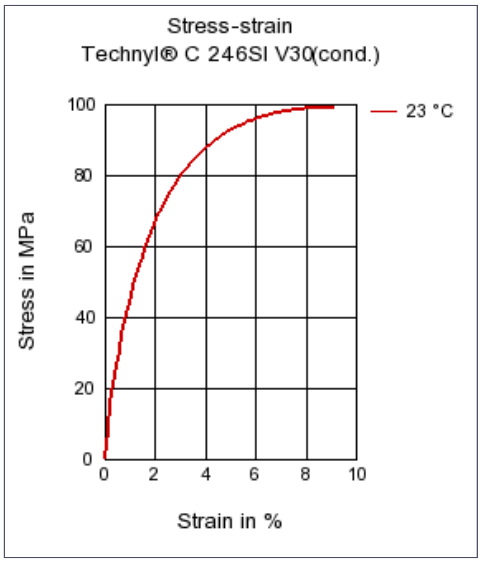
Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	0.88 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m³	ISO 1183

Diagrams

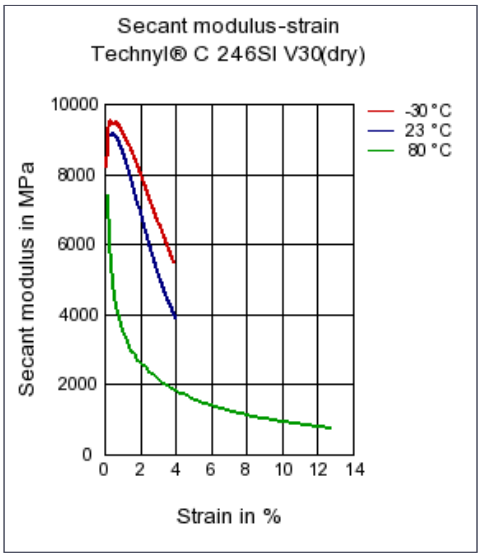
Stress-strain



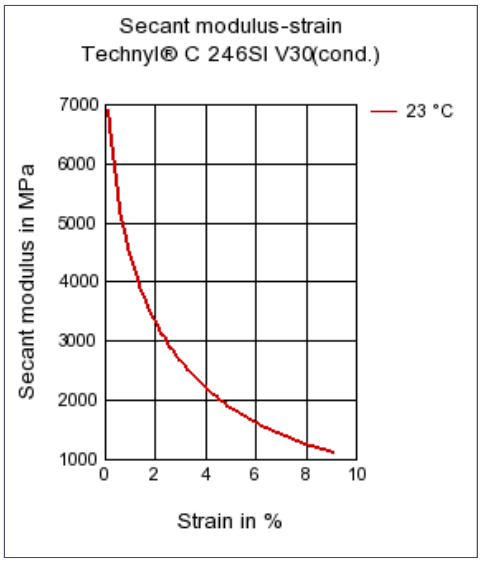
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Other text information

Injection Molding

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to final moisture content less than 0.2% with a dehumidified air drying equipment at approx. 80°C.

Recommended moulding conditions:

- Barrel temperatures:

feed zone 250 - 280°C
compression zone 250 - 280°C
front zone 260 - 290°C

- Mould temperature: 70 - 90 °C