

Stanyl® TW271B3

(PA46+PTFE)-CF15

DSM Engineering Plastics

Product Texts

15% Carbon Reinforced, Heat Stabilized, Wear and Friction Modified

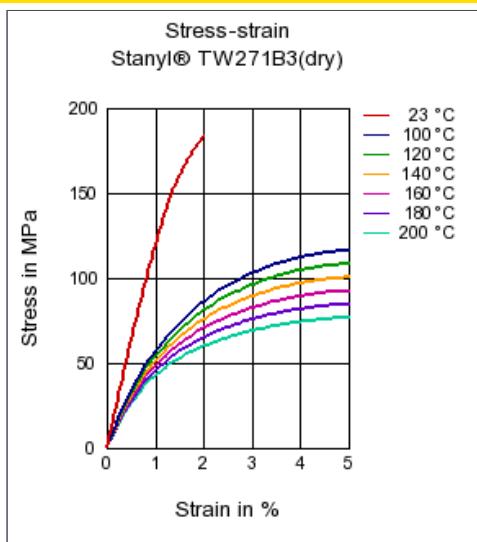
ISO 1043 (PA46+PTFE)-CF15

[Stanyl website](#)

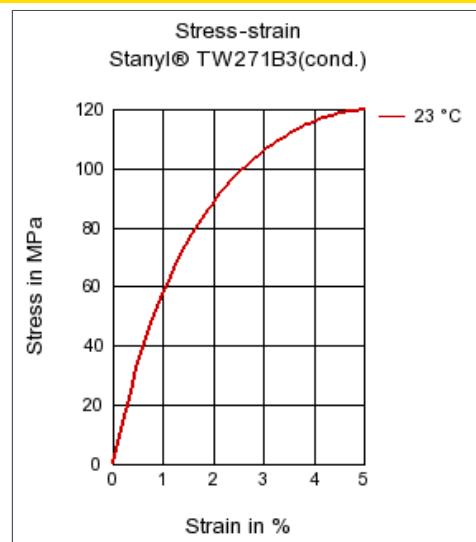
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12500 / 6700	MPa	ISO 527-1/-2
Stress at break	185 / 120	MPa	ISO 527-1/-2
Strain at break	2 / 5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	75 / *	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-2
Electrical properties			
ISO Data			
Volume resistivity	10 / -	Ohm*m	IEC 60093
Other properties			
ISO Data			
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m ³	ISO 1183

Diagrams

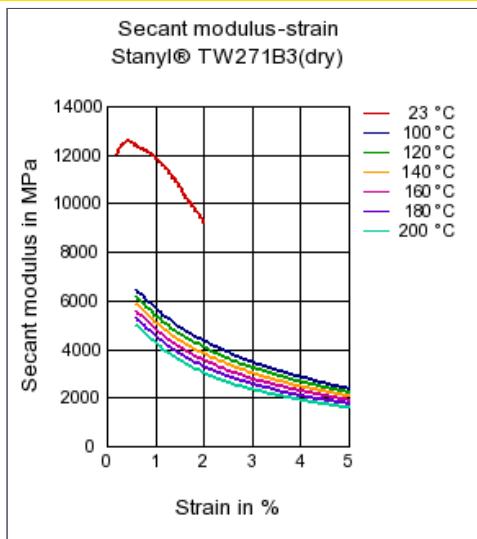
Stress-strain



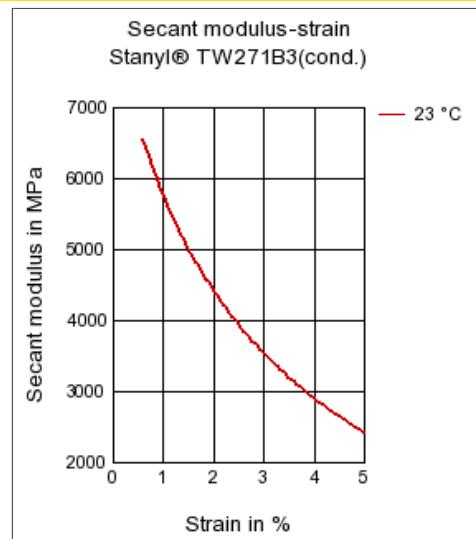
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)