

**Stanyl® TW271B6**

(PA46+PTFE)-CF30

DSM Engineering Plastics

**Product Texts**

30% Carbon Reinforced, Heat Stabilized, Wear and Friction Modified

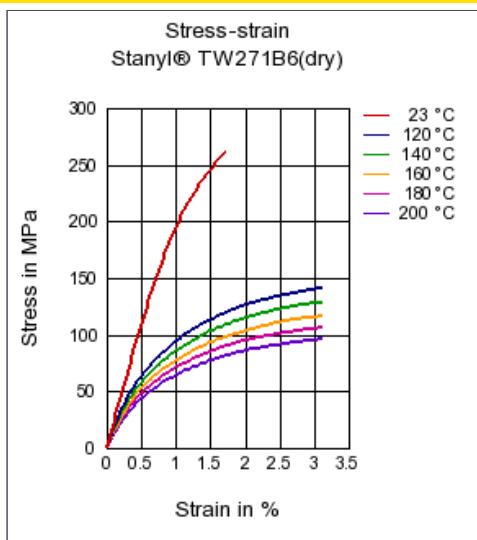
ISO 1043 (PA46+PTFE)-CF30

[Stanyl website](#)

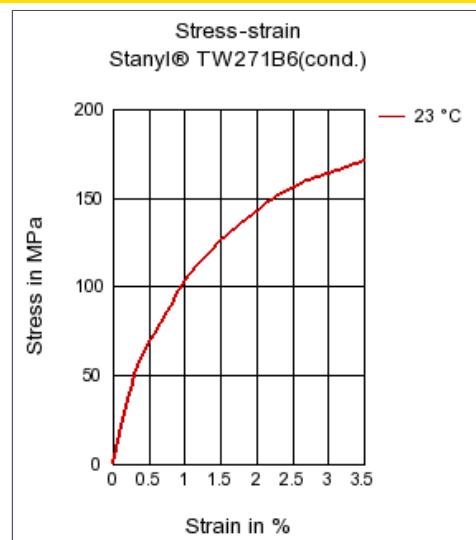
<b>Rheological properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Tensile Modulus	24000 / 14500	MPa
	Stress at break	260 / 170	MPa
	Strain at break	1.7 / 3.5	%
	Charpy impact strength (+23°C)	50 / 80	kJ/m <sup>2</sup>
	Charpy impact strength, -30°C	50 / 55	kJ/m <sup>2</sup>
	Charpy notched impact strength (+23°C)	7 / 17	kJ/m <sup>2</sup>
	Charpy notched impact strength, -30°C	7 / 7	kJ/m <sup>2</sup>
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Melting temperature (10°C/min)	295 / *	°C
	Glass transition temperature, 10°C/min	75 / *	°C
	Temp. of deflection under load (1.80 MPa)	290 / *	°C
	Coeff. of linear therm. expansion, parallel	25 / *	E-6/K
<b>Other properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Water absorption	8.7 / *	%
	Humidity absorption	2.4 / *	%
Density	1320 / -	kg/m <sup>3</sup>	ISO 1183
<b>Material specific properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Viscosity number	150 / *	cm <sup>3</sup> /g

Diagrams

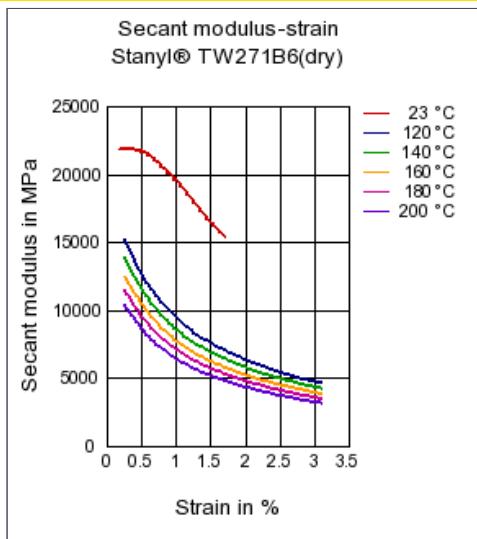
Stress-strain



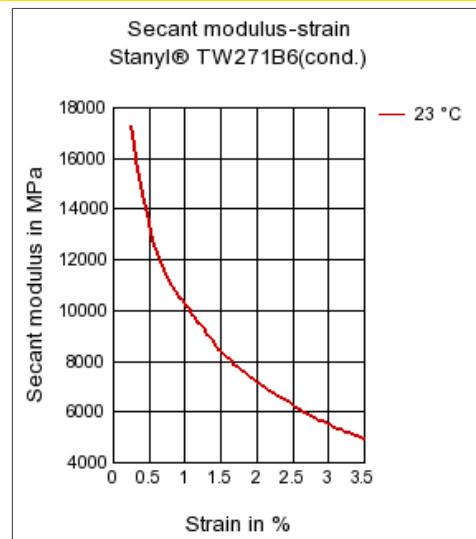
Stress-strain



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](#)