

**Stanyl® TW272B6**

(PA46+PTFE)-CF30

DSM Engineering Plastics

**Product Texts**

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

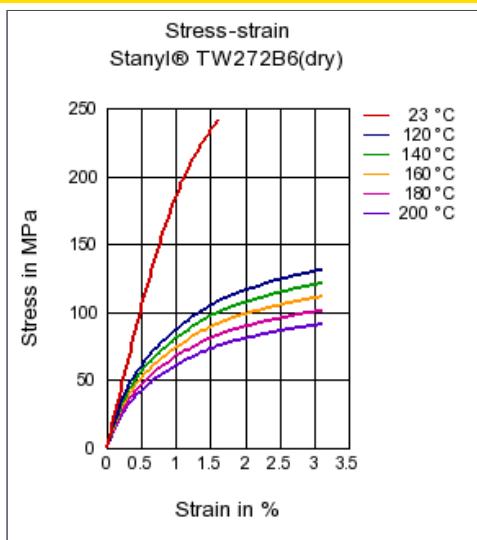
ISO 1043 (PA46+PTFE)-CF30

[Stanyl website](#)

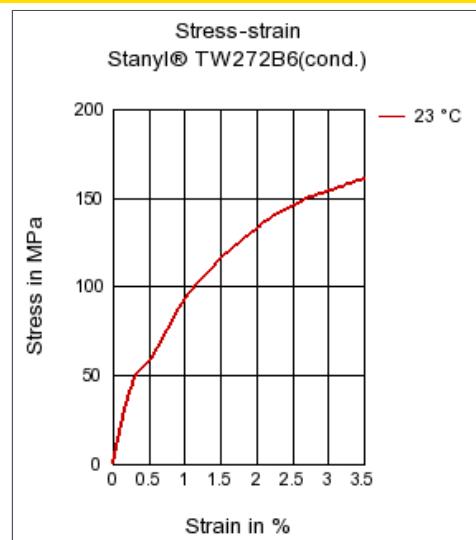
<b>Rheological properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Tensile Modulus	24000 / 14500	MPa
	Stress at break	240 / 160	MPa
	Strain at break	1.6 / 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)	6 / 13	kJ/m <sup>2</sup>
	Charpy notched impact strength, -30°C	6 / 6	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	8.1 / *	%
	Humidity absorption	2.25 / *	%
<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**

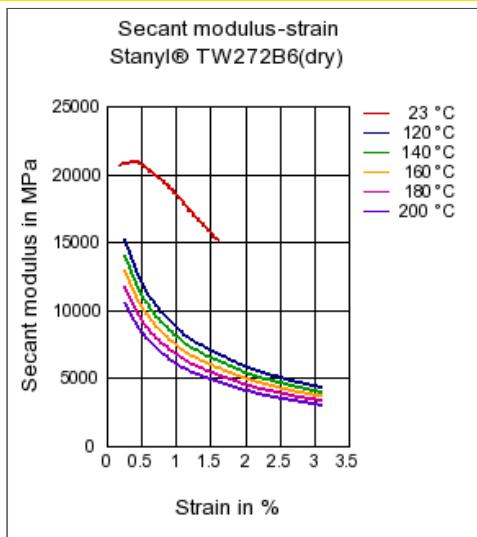
**Stress-strain**



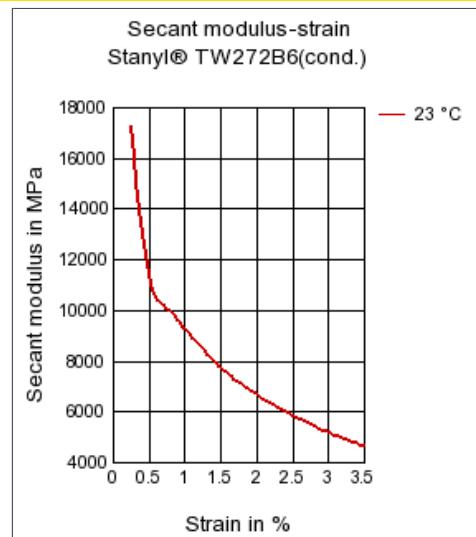
**Stress-strain**



**Secant modulus-strain**



**Secant modulus-strain**



**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules

**Other text information**

**Injection Molding**

[Injection Molding Recommendations](#)

**Special Characteristics**

Heat stabilized or stable to heat