


Stanyl® TW275F6

PA46-GF30

DSM Engineering Plastics

Product Texts

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

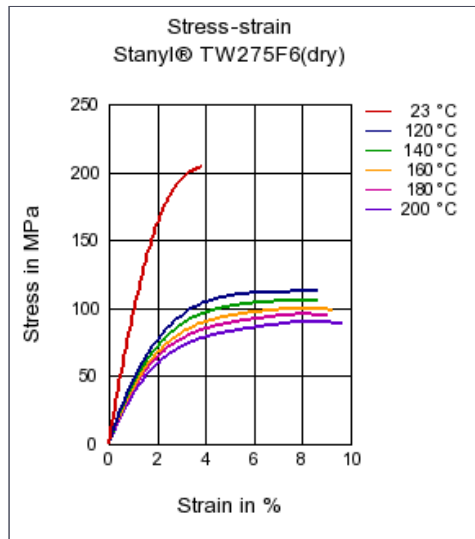
ISO 1043 PA46-GF30

[Stanyl website](#)

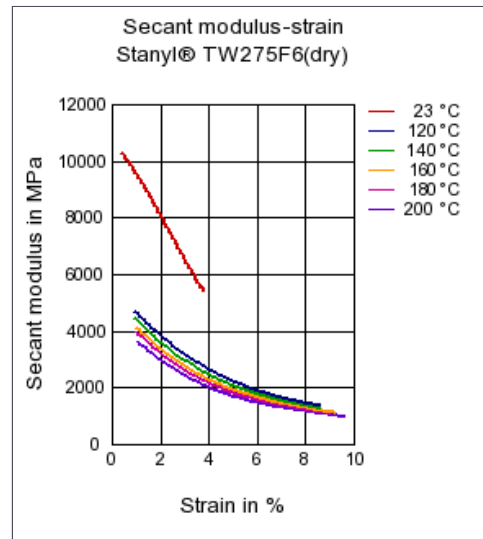
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Stress at break	205 / 115	MPa	ISO 527-1/-2
Strain at break	3.5 / 7	%	ISO 527-1/-2
Charpy impact strength (+23°C)	75 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	60 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 18	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 / 9	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)	285 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	290 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
Other properties			
ISO Data			
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1430 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)