


Stanyl® TW241F3

PA46-GF15

DSM Engineering Plastics

Product Texts

15% Glass Reinforced, Heat Stabilized, Lubricated

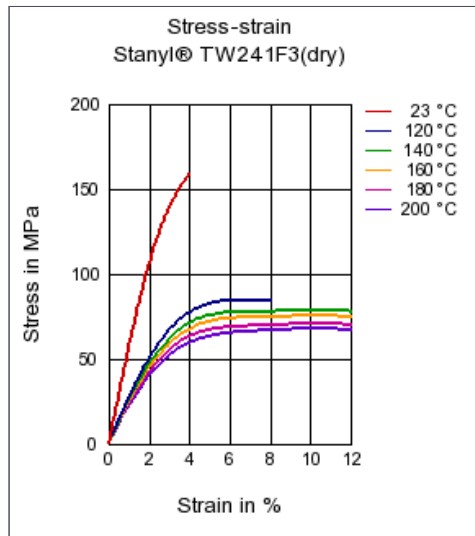
ISO 1043 PA46-GF15

[Stanyl website](#)

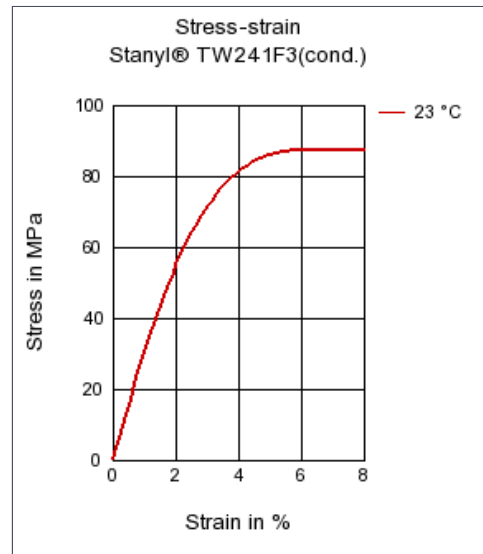
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6100 / 2800	MPa	ISO 527-1/-2
Stress at break	140 / 70	MPa	ISO 527-1/-2
Strain at break	4 / 8	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	45 / 50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6 / 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)	275 / *	°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	50 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Other properties			
ISO Data			
Water absorption	11.5 / *	%	Sim. to ISO 62
Humidity absorption	3.15 / *	%	Sim. to ISO 62
Density	1290 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	150 / *	cm ³ /g	ISO 307, 1157, 1628

Diagrams

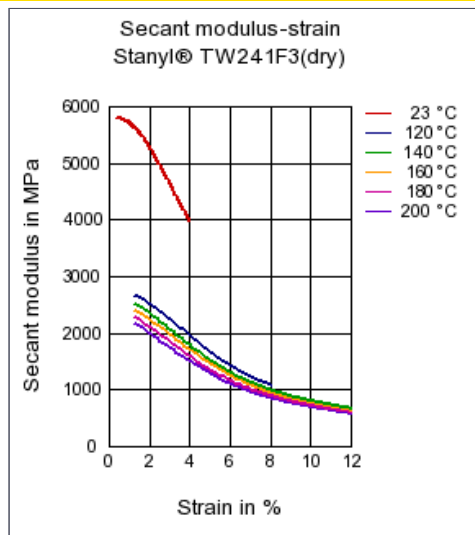
Stress-strain



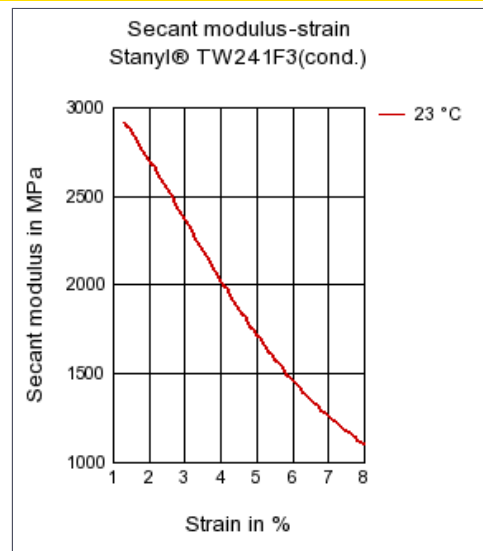
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Other text information

Injection Molding

[Injection Molding Recommendations](#)