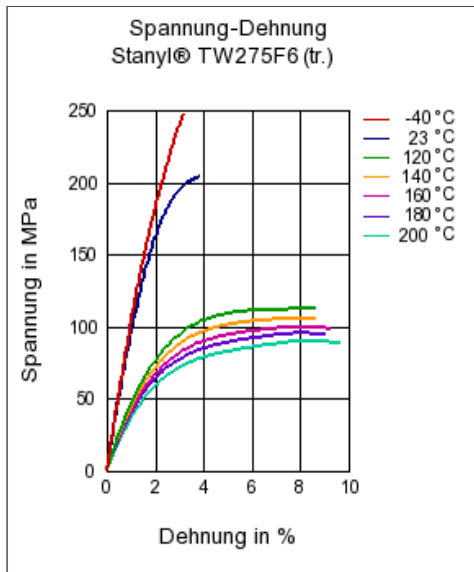




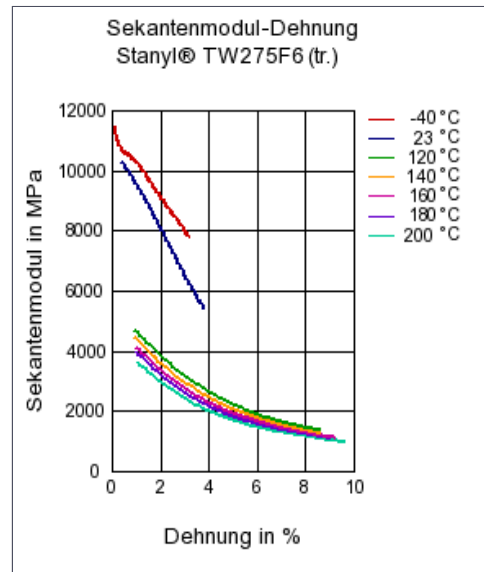
Stanyl® TW275F6			
PA46-GF30			Envalior
Product Texts			
30% Glass Reinforced, Heat Stabilized, Wear and Friction Modified			
ISO 1043 PA46-GF30			
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Stress at break	205 / 115	MPa	ISO 527
Strain at break	3.5 / 7	%	ISO 527
Charpy impact strength, +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	dry / cond	Unit	Test Standard
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	dry / cond	Unit	Test Standard
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	dry / cond	Unit	Test Standard
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Features

Tribologic Grade

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)

[Hot runner recommendations for molding high heat performance Engineering Materials](#)

[Steel recommendations for molds screws and barrels](#)

[Supporting document for Stanyl quality processing](#)

[Trouble shooting guideline for injection molding](#)

Chemical Media Resistance

Alcohols

😊 Ethanol (23°C)

Hydrocarbons

😊 Toluene (23°C)

Ketones

😊 Acetone (23°C)

Ethers

😊 Diethyl ether (23°C)

Other

😊 Ethyl Acetate (23°C)

😊 Water (23°C)