

Stanyl® TW275F6

PA46-GF30

DSM Engineering Plastics

Product Texts

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

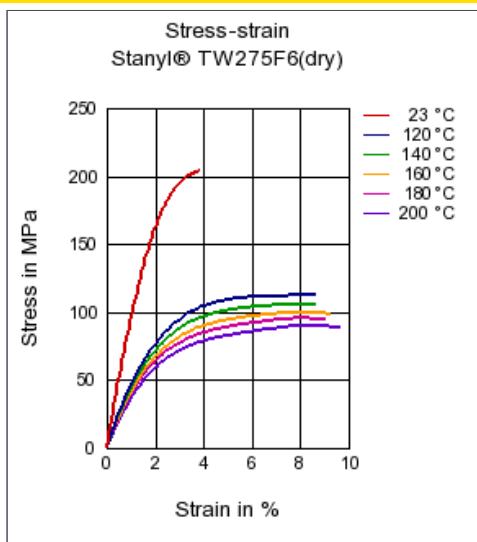
ISO 1043 PA46-GF30

[Stanyl website](#)

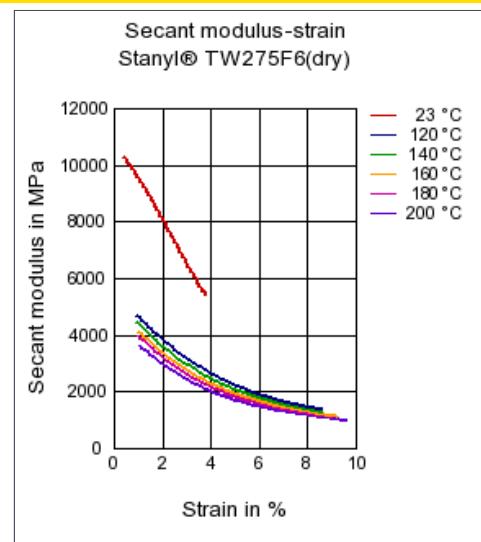
| Mechanical properties | dry / cond | Unit | Test Standard |
|---|-------------------|--------------------|----------------------|
| ISO Data | | | |
| Stress at break | 205 / 115 | MPa | ISO 527-1/-2 |
| Strain at break | 3.5 / 7 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 75 / 100 | kJ/m 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](#)