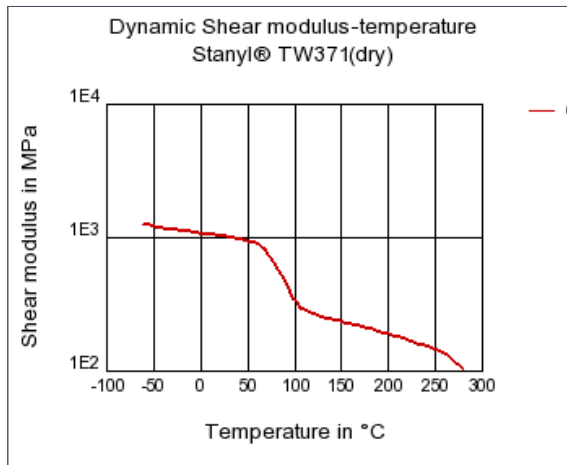




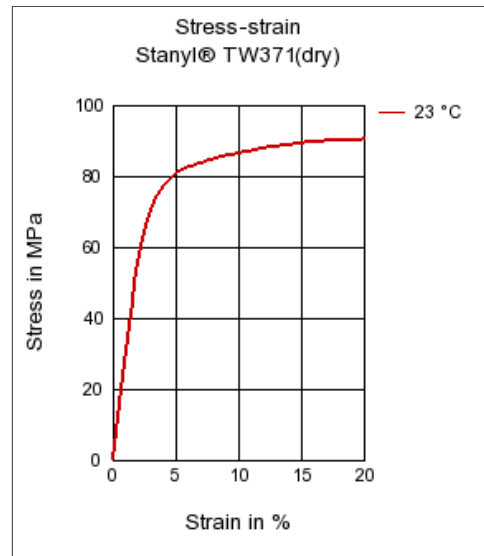
| Stanyl® TW371 | | | |
|---|-------------------|--------------------------|----------------------|
| (PA46+PTFE) | | DSM Engineering Plastics | |
| Product Texts | | | |
| Heat Stabilized, Wear and Friction Modified | | | |
| ISO 1043 (PA46+PTFE) | | | |
| Stanyl website | | | |
| Mechanical properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Tensile Modulus | 2900 / 1000 | MPa | ISO 527-1/-2 |
| Yield stress | 90 / 50 | MPa | ISO 527-1/-2 |
| Yield strain | 20 / 30 | % | ISO 527-1/-2 |
| Nominal strain at break | 30 / >50 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 150 / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 7 / 15 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 5 / 5 | kJ/m ² | ISO 179/1eA |
| Thermal properties | dry / cond | Unit | Test Standard |
| 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) | 190 / * | °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 | 85 / * | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 110 / * | 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 |
| UL recognition | UL / * | - | - |
| Burning behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 3.0 / * | mm | IEC 60695-11-10 |
| UL recognition | UL / * | - | - |
| Electrical properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Volume resistivity | 1E12 / 1E7 | Ohm*m | IEC 60093 |
| Surface resistivity | * / 1E13 | Ohm | IEC 60093 |
| Comparative tracking index | 400 / - | - | IEC 60112 |
| Other properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Water absorption | 11.4 / * | % | Sim. to ISO 62 |
| Humidity absorption | 3.2 / * | % | Sim. to ISO 62 |
| Density | 1250 / - | kg/m ³ | ISO 1183 |
| Material specific properties | dry / cond | Unit | Test Standard |
| ISO Data | | | |
| Viscosity number | 180 / * | cm ³ /g | ISO 307, 1157, 1628 |

Diagrams

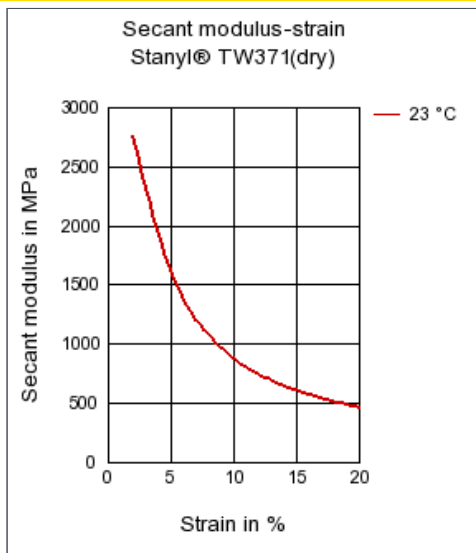
Dynamic Shear modulus-temperature



Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Additives

Lubricants

Delivery form

Pellets

Special Characteristics

Platable, Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)