

Stanyl® TE341

PA46

DSM Engineering Plastics

Product Texts

Heat Stabilized, Lubricated

ISO 1043 PA46

[Stanyl website](#)

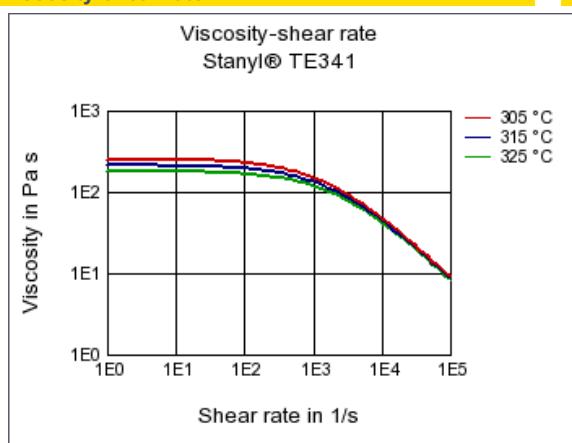
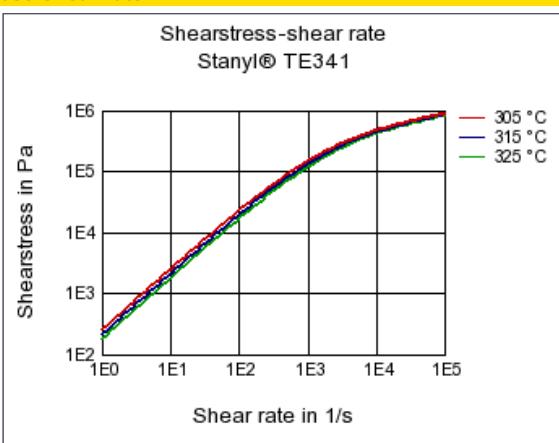
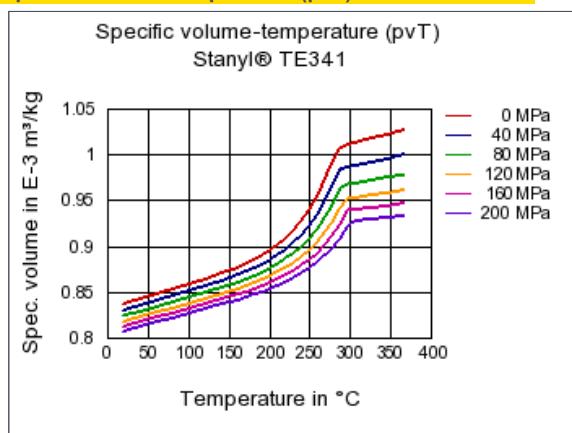
| Mechanical properties | dry / cond | Unit | Test Standard |
|---------------------------------------------|-------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 3300 / 1000 | MPa | ISO 527-1/-2 |
| Yield stress | 100 / 55 | MPa | ISO 527-1/-2 |
| Yield strain | 10 / 20 | % | ISO 527-1/-2 |
| Nominal strain at break | 40 / >50 | % | ISO 527-1/-2 |
| Tensile creep modulus, 1000h | * / 550 | MPa | ISO 899-1 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 10 / 35 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 4 / 4 | 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) | 190 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 280 / * | °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. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | IEC 60695-11-10 |
| UL recognition | UL / * | - | - |
| Burning behav. at thickness h | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / * | mm | IEC 60695-11-10 |
| UL recognition | UL / * | - | - |
| Oxygen index | 27 / * | % | ISO 4589-1/-2 |
| Electrical properties | | | |
| ISO Data | | | |
| Relative permittivity, 100Hz | 4 / 13 | - | IEC 60250 |
| Relative permittivity, 1MHz | 3.6 / 4.3 | - | IEC 60250 |
| Dissipation factor, 100Hz | 70 / 1400 | E-4 | IEC 60250 |
| Dissipation factor, 1MHz | 260 / 1000 | E-4 | IEC 60250 |
| Volume resistivity | 1E13 / 1E10 | Ohm*m | IEC 60093 |
| Surface resistivity | * / 1E14 | Ohm | IEC 60093 |
| Electric strength | 25 / 20 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / - | - | IEC 60112 |
| Other properties | | | |
| ISO Data | | | |
| Water absorption | 13.5 / * | % | Sim. to ISO 62 |
| Humidity absorption | 3.7 / * | % | Sim. to ISO 62 |
| Density | 1180 / - | kg/m ³ | ISO 1183 |

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| Material specific properties | dry / cond | Unit | Test Standard |
|-------------------------------------------|------------|--------------------|---------------------|
| ISO Data | | | |
| Viscosity number | 185 / * | cm ³ /g | ISO 307, 1157, 1628 |
| Rheological calculation properties | | | |
| ISO Data | | | |
| Density of melt | 987 | kg/m ³ | - |
| Thermal conductivity of melt | 0.261 | W/(m K) | - |
| Spec. heat capacity of melt | 2790 | J/(kg K) | - |
| Eff. thermal diffusivity | 9.11E-8 | m ² /s | - |

Diagrams**Viscosity-shear rate****Shearstress-shear rate****Specific volume-temperature (pvT)****Characteristics****Processing**

Injection Molding

Additives

Lubricants, Release agent

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Other text information**Injection Molding**[Injection Molding Recommendations](#)