

Arnite® TV4 260 S

PBT-GF30 FR(17)

DSM Engineering Plastics

Product Texts

30% Glass Reinforced, Flame Retardant

ISO 1043 PBT-GF30 FR(17)

[Arnite website](#)

| Mechanical properties | Value | Unit | Test Standard |
|---|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 11500 | MPa | ISO 527-1/-2 |
| Stress at break | 130 | MPa | ISO 527-1/-2 |
| Strain at break | 2 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 55 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 55 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 10 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 10 | kJ/m ² | ISO 179/1eA |
| Thermal properties | | | |
| ISO Data | | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 210 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 220 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 35 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 70 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | V-0 | 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 | 0.5 | mm | IEC 60695-11-10 |
| UL recognition | UL | - | - |
| Oxygen index | 36 | % | ISO 4589-1/-2 |
| Electrical properties | | | |
| ISO Data | | | |
| Relative permittivity, 100Hz | 4.1 | - | IEC 60250 |
| Relative permittivity, 1MHz | 3.9 | - | IEC 60250 |
| Dissipation factor, 100Hz | 20 | E-4 | IEC 60250 |
| Dissipation factor, 1MHz | 150 | E-4 | IEC 60250 |
| Volume resistivity | >1E13 | Ohm*m | IEC 60093 |
| Electric strength | 28 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 250 | - | IEC 60112 |
| Other properties | | | |
| ISO Data | | | |
| Water absorption | 0.3 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1690 | kg/m ³ | ISO 1183 |
| Rheological calculation properties | | | |
| ISO Data | | | |
| Density of melt | 1440 | kg/m ³ | - |
| Thermal conductivity of melt | 0.153 | W/(m K) | - |
| Spec. heat capacity of melt | 1740 | J/(kg K) | - |

Arnite® TV4 260 S

PBT-GF30 FR(17)

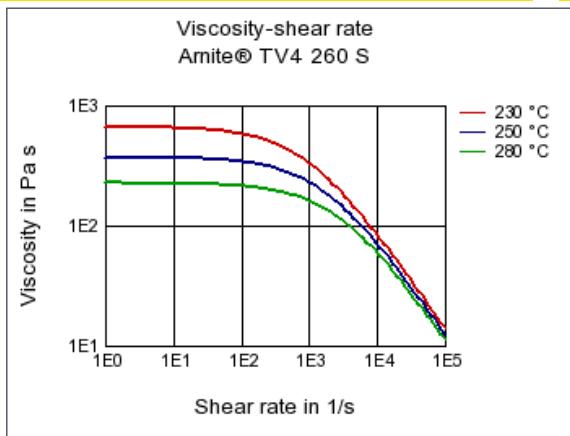
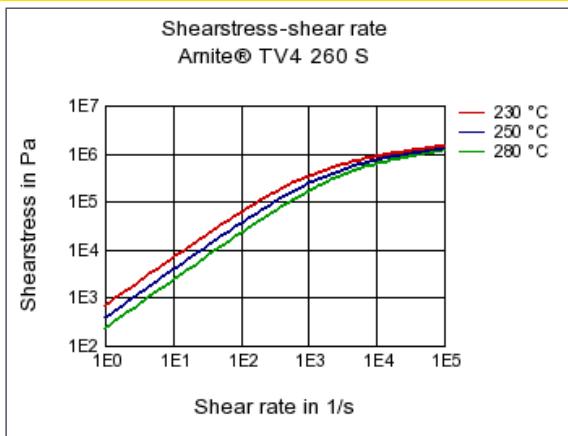
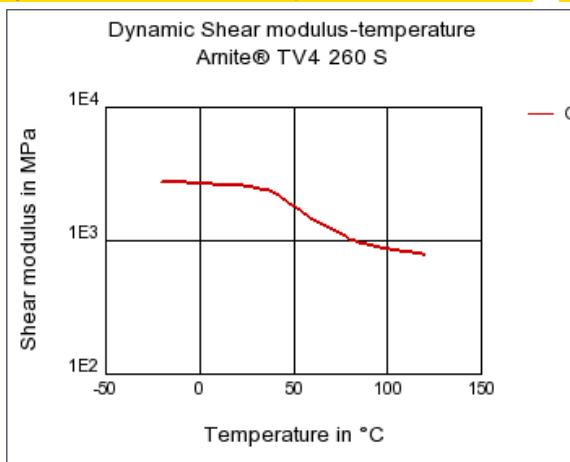
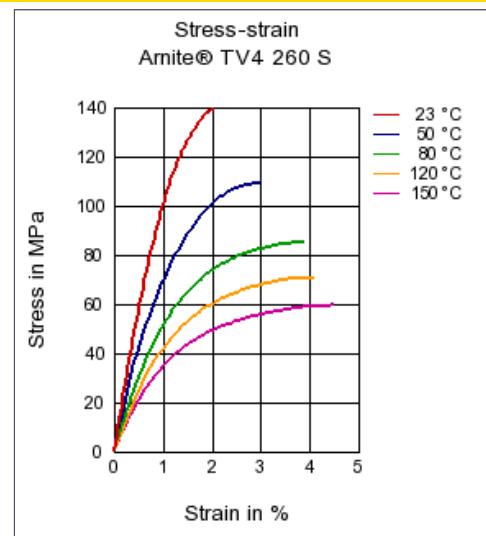
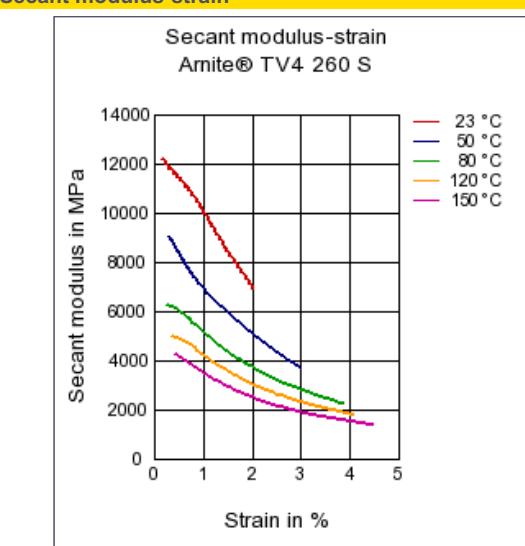
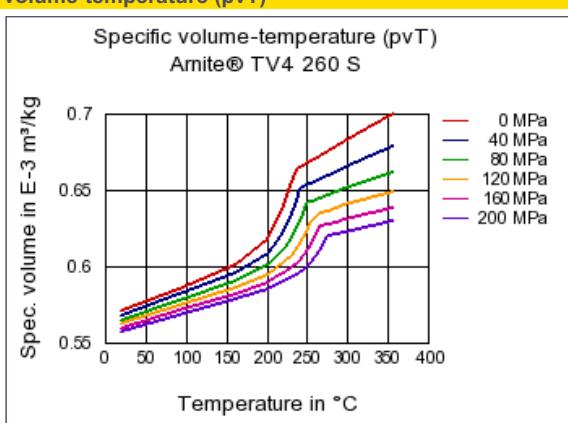
DSM Engineering Plastics

Eff. thermal diffusivity

6.12E-8

m²/s

-

Diagrams**Viscosity-shear rate****Shearstress-shear rate****Dynamic Shear modulus-temperature****Stress-strain****Secant modulus-strain****Specific volume-temperature (pvT)**

Arnite® TV4 260 S

PBT-GF30 FR(17)

DSM Engineering Plastics

Characteristics**Processing**

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

Flame retardant

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