# Arnite® TV4 230 SF

PBT-GF15 FR(17) DSM Engineering Plastics

## Product Texts

15% Glass Reinforced, Flame Retardant, High Flow

ISO 1043 PBT-GF15 FR(17)

Arnite website

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | 7000 | MPa | ISO 527-1/-2 |
| Stress at break | 95 | MPa | ISO 527-1/-2 |
| Strain at break | 2.5 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 40 | kJ/m² | ISO 179/1eU |
| Charpy impact strength, -30°C | 40 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 6 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 6 | kJ/m² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 190 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 215 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 50 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 80 | 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-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | IEC 60695-11-10 |
| UL recognition | UL | - | - |
| Burning behav. 5V at thickness h | 5VB | class | IEC 60695-11-20 |
| Thickness tested | 1.5 | mm | IEC 60695-11-20 |
| UL recognition | UL | - | - |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Relative permittivity, 100Hz | 3.7 | - | IEC 60250 |
| Relative permittivity, 1MHz | 3.5 | - | IEC 60250 |
| Dissipation factor, 100Hz | 25 | E-4 | IEC 60250 |
| Dissipation factor, 1MHz | 140 | 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 | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Water absorption | 0.3 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1560 | kg/m³ | ISO 1183 |

# Arnite® TV4 230 SF

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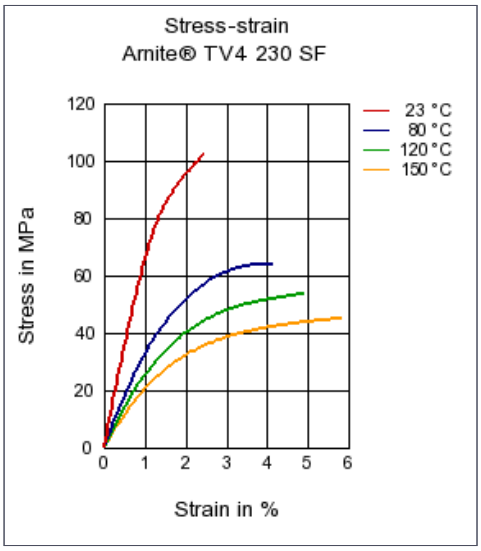
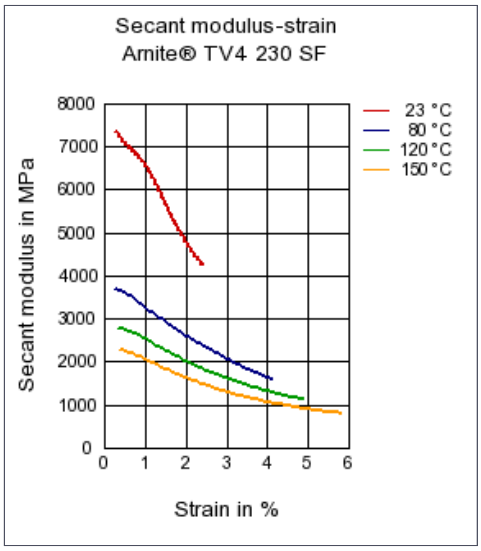
## Diagrams

### Stress-strain




### Secant modulus-strain




## Characteristics

### Processing

Injection Molding

### Additives

Release agent

### Delivery form

Pellets

### Special Characteristics

Flame retardant

## Other text information

### Injection Molding

Injection Molding Recommendations