

DSM Engineering Plastics - Property Data

Arnite® TV4 460 KL

(PBT+PET)-GF30

30% Glass Reinforced, Heat Stabilised, UV Stabilised

| Properties | Typical Data | Unit | Test Method |
|--|-----------------|-------------------|-----------------|
| MECHANICAL PROPERTIES | | | |
| Tensile modulus | 10500 | MPa | ISO 527-1/-2 |
| Stress at break | 145 | MPa | ISO 527-1/-2 |
| Strain at break | 2 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 50 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 50 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 11 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 11 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| Temp. of deflection under load (1.80 MPa) | 205 | °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) | 0.2 | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.9 | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.6 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.6 | mm | IEC 60695-11-10 |
| ELECTRICAL PROPERTIES | | | |
| Relative permittivity (100Hz) | 4.1 | - | IEC 60250 |
| Relative permittivity (1 MHz) | 3.9 | - | IEC 60250 |
| Dissipation factor (100 Hz) | 20 | E-4 | IEC 60250 |
| Dissipation factor (1 MHz) | 180 | E-4 | IEC 60250 |
| Volume resistivity | >1E13 | Ohm*m | IEC 60093 |
| Surface resistivity | >1E15 | Ohm | IEC 60093 |
| Electric strength | 26 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 250 | - | IEC 60112 |
| OTHER PROPERTIES | | | |
| Water absorption | 0.35 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1550 | kg/m ³ | ISO 1183 |

30.09.2003



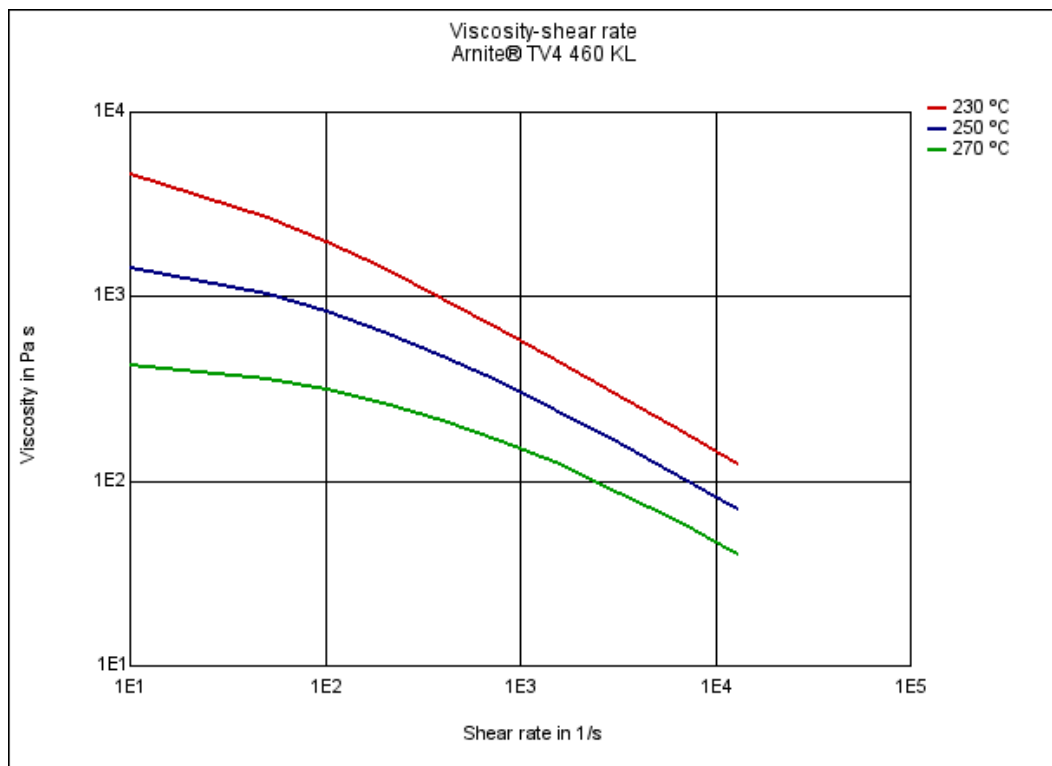
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VISCOSITY-SHEAR RATE



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