

Arnite[®] Care T1U

PBT

Unreinforced, Medium Viscosity, Injection Molding, Medical grade

Print Date: 2024-07-04

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------------------|-------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate | 24 | cm ³ /10min | ISO 1133 |
| Temperature | 250 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage [normal] | 2 | % | Sim. to ISO 294-4 |
| Molding shrinkage [parallel] | 2 | % | Sim. to ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Tensile modulus | 2700 | MPa | ISO 527-1/-2 |
| Yield stress | 55 | MPa | ISO 527-1/-2 |
| Yield strain | 3.5 | % | ISO 527-1/-2 |
| Nominal strain at break | 20 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 5 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 5 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | VALUE | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 55 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 165 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.9 | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.9 | E-4/°C | ISO 11359-1/-2 |

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|-------------------------------------|---------------------|-------------------|--------------------|
| <i>ELECTRICAL PROPERTIES</i> | | | |
| | <i>VALUE</i> | | |
| Relative permittivity (100Hz) | 3.5 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 3.2 | – | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 20 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 200 | E-4 | IEC 62631-2-1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Electric strength | 27 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 | V | IEC 60112 |
| Comparative tracking index (PLC) | 0 | class | UL 746A |
| <i>OTHER PROPERTIES</i> | | | |
| | <i>VALUE</i> | | |
| Water absorption | 0.45 | % | Sim. to ISO 62 |
| Humidity absorption | 0.18 | % | Sim. to ISO 62 |
| Density | 1320 | kg/m ³ | ISO 1183 |

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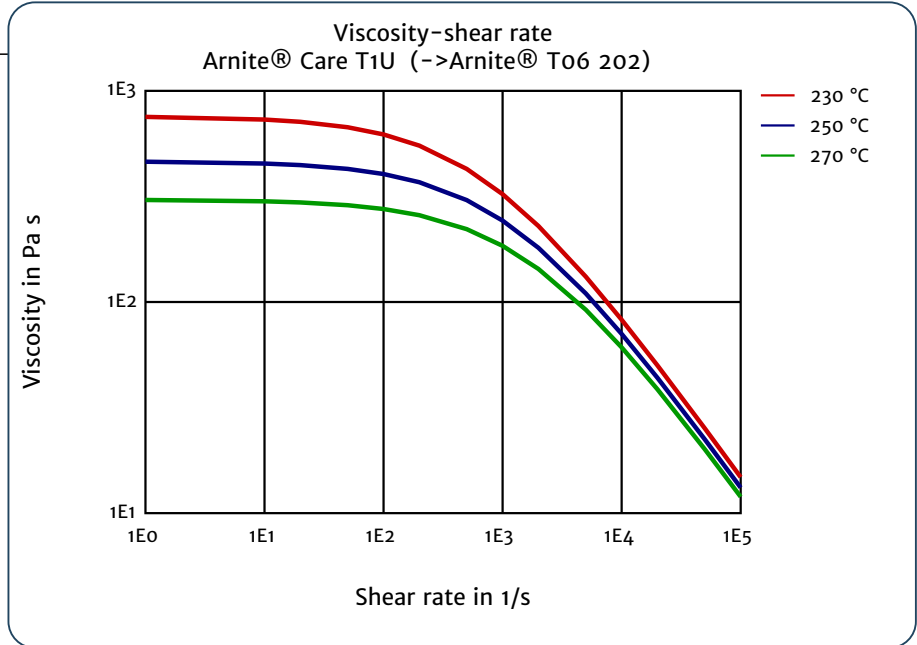
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Viscosity–shear rate



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