


**Arnite® TV4 441**  
 (PBT+PET)-GF20

DSM Engineering Plastics

**Product Texts**

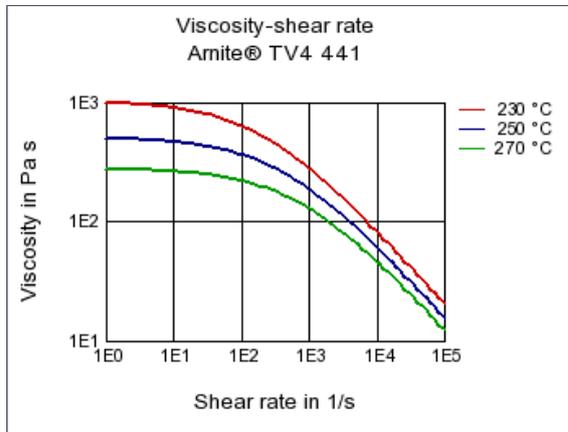
20% Glass Reinforced

ISO 1043 (PBT+PET)-GF20

| <b>Mechanical properties</b>              | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---|--------------|-------------------|----------------------|
| <b>ISO Data</b>                           |              |                   |                      |
| Tensile Modulus                           | 7300         | MPa               | ISO 527-1/-2         |
| Stress at break                           | 112          | MPa               | ISO 527-1/-2         |
| Strain at break                           | 2.7          | %                 | ISO 527-1/-2         |
| Charpy impact strength (+23°C)            | 25           | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy impact strength, -30°C             | 25           | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy notched impact strength (+23°C)    | 7            | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Charpy notched impact strength, -30°C     | 7            | kJ/m <sup>2</sup> | ISO 179/1eA          |
| <b>Thermal properties</b>                 |              |                   |                      |
| <b>ISO Data</b>                           |              |                   |                      |
| Temp. of deflection under load (1.80 MPa) | 200          | °C                | ISO 75-1/-2          |
| Burning behav. at 1.5 mm nom. thickn.     | HB           | class             | IEC 60695-11-10      |
| Thickness tested                          | 1.6          | mm                | IEC 60695-11-10      |
| <b>Electrical properties</b>              |              |                   |                      |
| <b>ISO Data</b>                           |              |                   |                      |
| Volume resistivity                        | >1E13        | Ohm*m             | IEC 60093            |
| <b>Other properties</b>                   |              |                   |                      |
| <b>ISO Data</b>                           |              |                   |                      |
| Water absorption                          | 0.3          | %                 | Sim. to ISO 62       |
| Humidity absorption                       | 0.15         | %                 | Sim. to ISO 62       |
| Density                                   | 1460         | kg/m <sup>3</sup> | ISO 1183             |

**Diagrams**

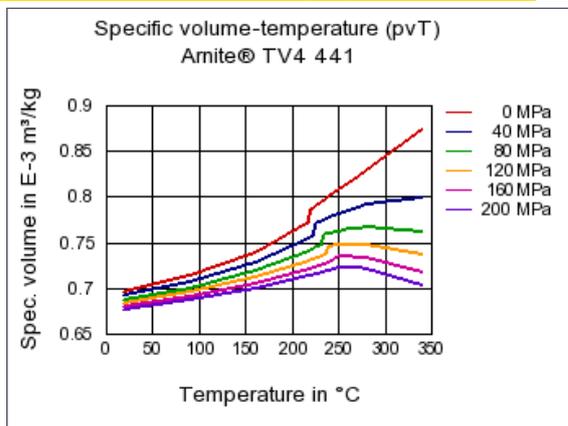
**Viscosity-shear rate**



**Shearstress-shear rate**



**Specific volume-temperature (pvT)**



**Characteristics**

**Processing**

Injection Molding

**Additives**

Release agent

**Delivery form**

Pellets

**Other text information**

**Injection Molding**

[Injection Molding Recommendations](#)