

**Product Texts**

35% Glass Reinforced, Food Contact Quality

ISO 1043 PBT-GF35

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Density of melt	<b>1260</b>	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	<b>0.197</b>	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	<b>1740</b>	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	<b>9.01E-8</b>	m <sup>2</sup> /s	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>11500</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>155</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>2.5</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>65</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>65</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>9.7</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>13</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>225</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>213</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>224</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>30</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	<b>70</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
<sup>[C]</sup> Burning Behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>3.0</b>	mm	-
Yellow Card available	<b>yes</b>	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Electric strength	<b>30</b>	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	<b>475</b>	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.25</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.15</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1570</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**  
Injection Molding

**Certifications**  
Food contact

## Arnite® TV4 270

PBT-GF35

Envalior

### Delivery form

Pellets

### Regional Availability

Europe, Asia Pacific

### Additives

Release agent

### Other text information

#### Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Supporting document for Stanyl quality processing](#)