

# Arnite<sup>®</sup> TV4 220

## PBT–GF10

10% Glass Reinforced

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Melt volume–flow rate	21	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.85	%	Sim. to ISO 294–4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Tensile modulus	4600	MPa	ISO 527–1/–2
Stress at break	90	MPa	ISO 527–1/–2
Strain at break	4	%	ISO 527–1/–2
Charpy impact strength (+23°C)	30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.9	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	3.9	kJ/m <sup>2</sup>	ISO 179/1eA
<b><i>THERMAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Melting temperature (10°C/min)	225	°C	ISO 11357–1/–3
Coeff. of linear therm. expansion (parallel)	0.6	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8	E–4/°C	ISO 11359–1/–2
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>OTHER PROPERTIES</b>			
Water absorption	0.35	%	Sim. to ISO 62
Humidity absorption	0.16	%	Sim. to ISO 62
Density	1370	kg/m <sup>3</sup>	ISO 1183