

Arnite® TV4 261

PBT-GF30

30% Glass Reinforced

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Properties	Typical Data	Unit	Test Method
Rheological properties			
Melt volume-flow rate	18	cm ³ /10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.2	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.33	%	Sim. to ISO 294-4
Mechanical properties			
Tensile modulus	9750	MPa	ISO 527-1/-2
Stress at break	145	MPa	ISO 527-1/-2
Strain at break	2.8	%	ISO 527-1/-2
Charpy impact strength (+23°C)	68	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9.5	kJ/m ²	ISO 179/1eA
Thermal properties			
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
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)	0.35	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10

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Properties	Typical Data	Unit	Test Method
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.71	mm	IEC 60695-11-10
Oxygen index	20	%	ISO 4589-1/-2

Electrical properties

Relative permittivity (100Hz)	3.9	-	IEC 60250
Relative permittivity (1 MHz)	3.7	-	IEC 60250
Dissipation factor (100 Hz)	25	E-4	IEC 60250
Dissipation factor (1 MHz)	170	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	400	-	IEC 60112

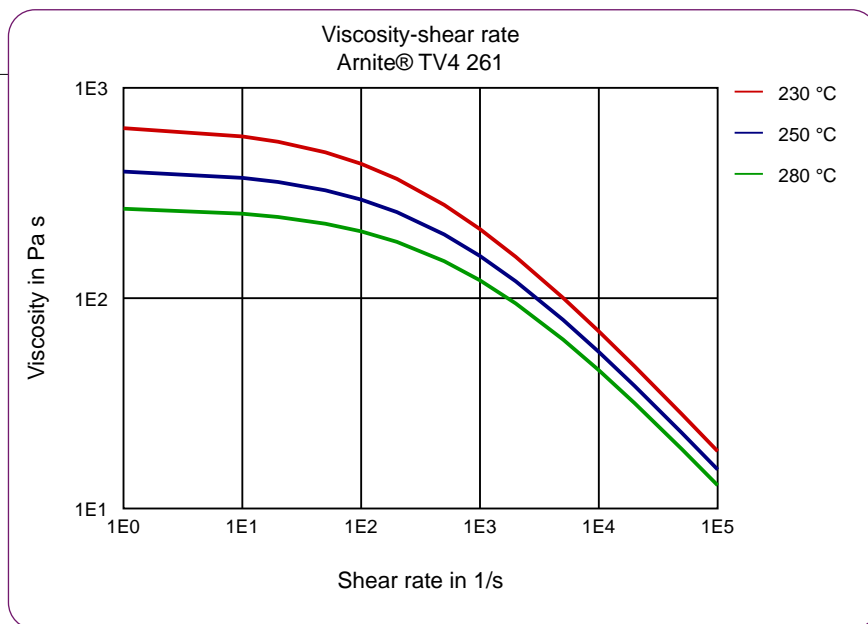
Other properties

Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1510	kg/m ³	ISO 1183

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Viscosity-shear rate



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