

Arnite[®] TZ6 280–T5.03.10

PBT–(GF+GB)40

20% Glass Reinforced, 20% Glass Beads Reinforced

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Melt volume–flow rate	12	cm ³ /10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	9200	MPa	ISO 527–1/–2
Stress at break	110	MPa	ISO 527–1/–2
Strain at break	2.3	%	ISO 527–1/–2
Flexural modulus	8700	MPa	ISO 178
Flexural strength	165	MPa	ISO 178
Charpy impact strength (+23°C)	40	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6	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)	195	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	210	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.4	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.75	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES	VALUE		

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1

OTHER PROPERTIES	VALUE		
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1600	kg/m³	ISO 1183

Viscosity–shear rate

