

Arnite[®] TZ6 280 (BK22003)

PBT—(GF+GB)40

20% Glass Reinforced, 20% Glass Beads Reinforced

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Molding shrinkage (normal)	1	%	ISO 294-4
Molding shrinkage (parallel)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	9100	MPa	ISO 527-1/-2
Stress at break	100	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Flexural modulus	8800	MPa	ISO 178
Flexural strength	160	MPa	ISO 178
Charpy impact strength (+23°C)	35	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30	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)	5.5	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)	205	°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)	0.3	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.3	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

Property Data

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Comparative tracking index	250	V	IEC 60112

OTHER PROPERTIES	VALUE		
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1630	kg/m³	ISO 1183

Viscosity–shear rate

