

Regional availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa, India

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent, With fillers

Product Text

Characteristics:

ISO 7792-PBT,M,10-060,MD25

25% mineral-reinforced.

Shrinkage 250x30x2: longitudinal: 1.5%

Shrinkage 250x30x2: transverse: 1.3%

UL 746 B, RTI = 140/130/140°C

Applications:

Suitable for housings, e.g. for household appliances, for which besides good isotropic behaviour a semi-dull surface is required.

Single-point data**Rheological properties**

Melt volume-flow rate	-	cm ³ /10min	ISO 1133
Temperature	-	°C	ISO 1133
Load	-	kg	ISO 1133
Molding shrinkage (parallel)	*	%	ISO 2577, 294-4
Molding shrinkage (normal)	*	%	ISO 2577, 294-4

Mechanical properties

Tensile modulus	6000	MPa	ISO 527-1/-2
Yield stress	*	MPa	ISO 527-1/-2
Yield strain	*	%	ISO 527-1/-2
Nominal strain at break	*	%	ISO 527-1/-2
Stress at 50% strain	*	MPa	ISO 527-1/-2
Stress at break	55	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Tensile creep modulus (1h)	-	MPa	ISO 899-1
Tensile creep modulus (1000h)	-	MPa	ISO 899-1
Charpy impact strength (+23°C)	-	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	-	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	-	kJ/m ²	ISO 179/1eA
Tensile notched impact strength (+23°C)	*	kJ/m ²	ISO 8256/1
Puncture - maximum force (+23°C)	-	N	ISO 6603-2
Puncture - maximum force (-30°C)	-	N	ISO 6603-2
Puncture energy (+23°C)	-	J	ISO 6603-2
Puncture energy (-30°C)	-	J	ISO 6603-2

Thermal properties

Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Glass transition temperature (10°C/min)	-	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	120	°C	ISO 75-1/-2

Temp. of deflection under load (0.45 MPa)	200	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	-	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	-	°C	ISO 306
Coeff.of linear therm. expansion (parallel)	0.5	E-4/°C	ISO 11359-1/-2
Coeff.of linear therm. expansion (normal)	0.5	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning Behav. 5V at thickn. h	-	class	IEC 60695-11-20
Thickness tested	-	mm	IEC 60695-11-20
UL recognition	-	-	-
Oxygen index	-	%	ISO 4589-1/-2

Electrical properties

Relative permittivity (100Hz)	2.9	-	IEC 60250
Relative permittivity (1 MHz)	3	-	IEC 60250
Dissipation factor (100Hz)	16	E-4	IEC 60250
Dissipation factor (1 MHz)	140	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	-	kV/mm	IEC 60243-1
Comparative tracking index	400	-	IEC 60112

Other properties

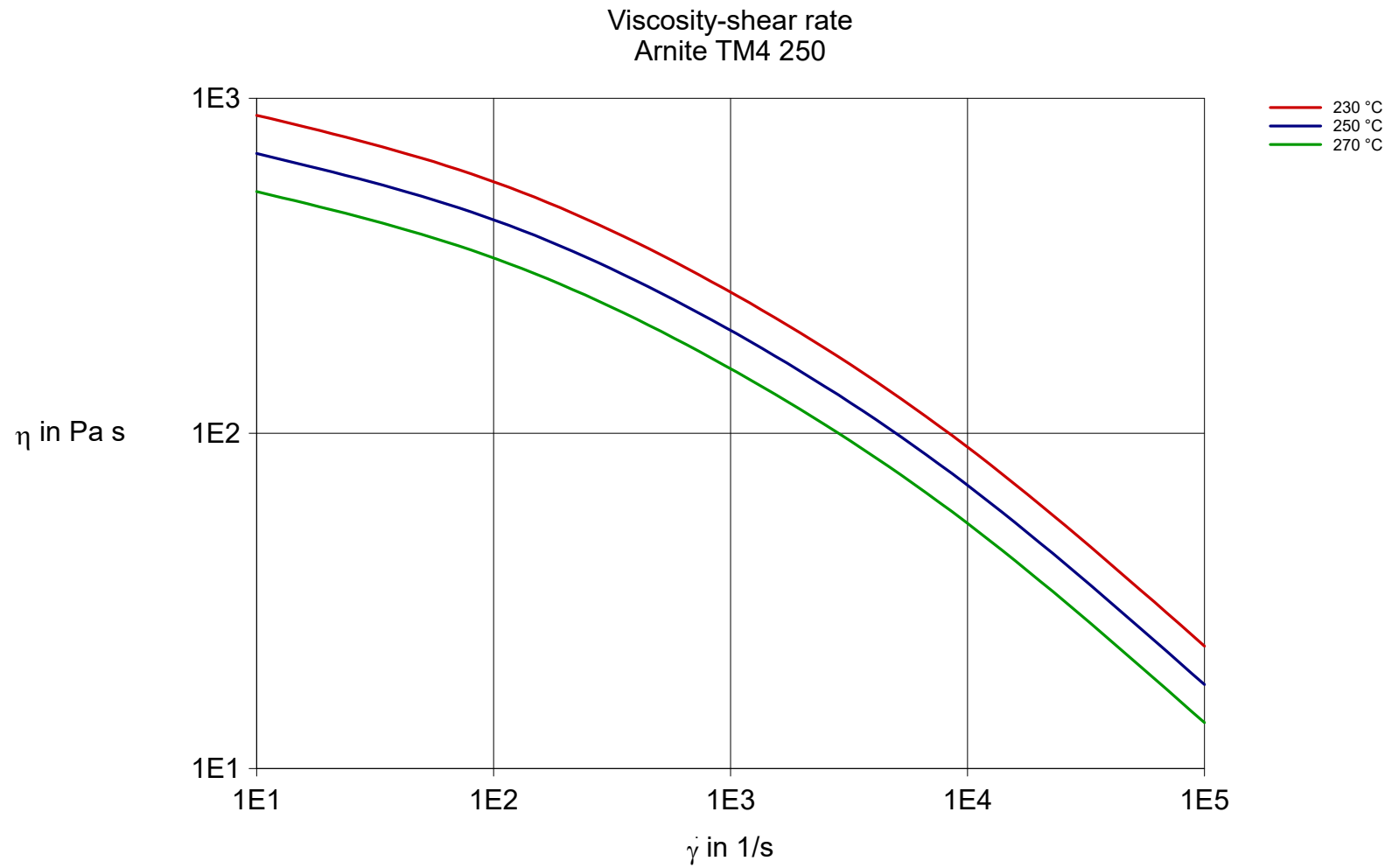
Water absorption	0.35	%	Similar to ISO 62
Humidity absorption	0.15	%	Similar to ISO 62
Density	1490	kg/m3	ISO 1183

Material specific properties

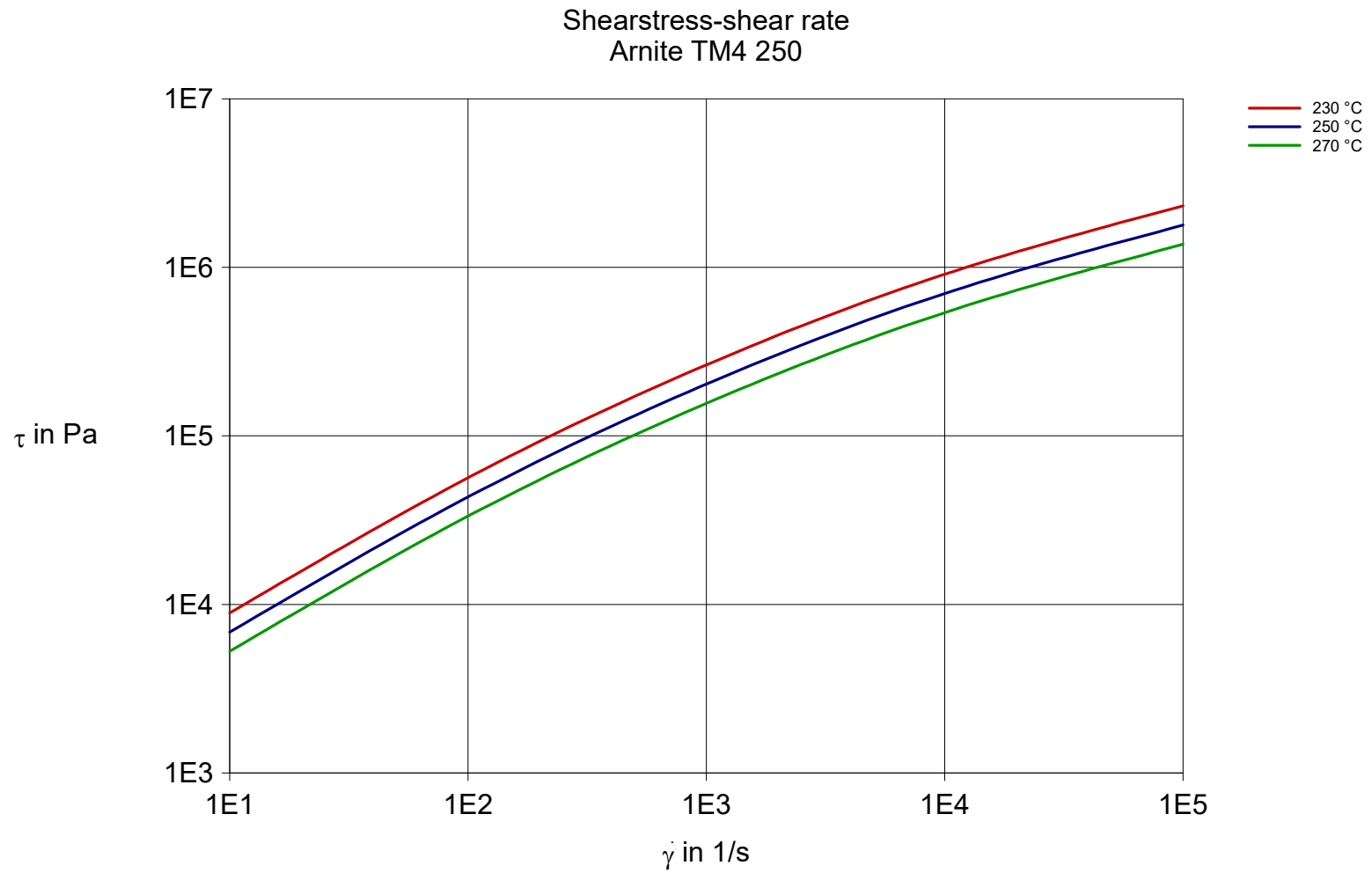
Viscosity number	*	cm3/g	ISO 307, 1157, 1628
Indicative density (PE only)	*	kg/m3	ISO 1872-1

Test specimen production

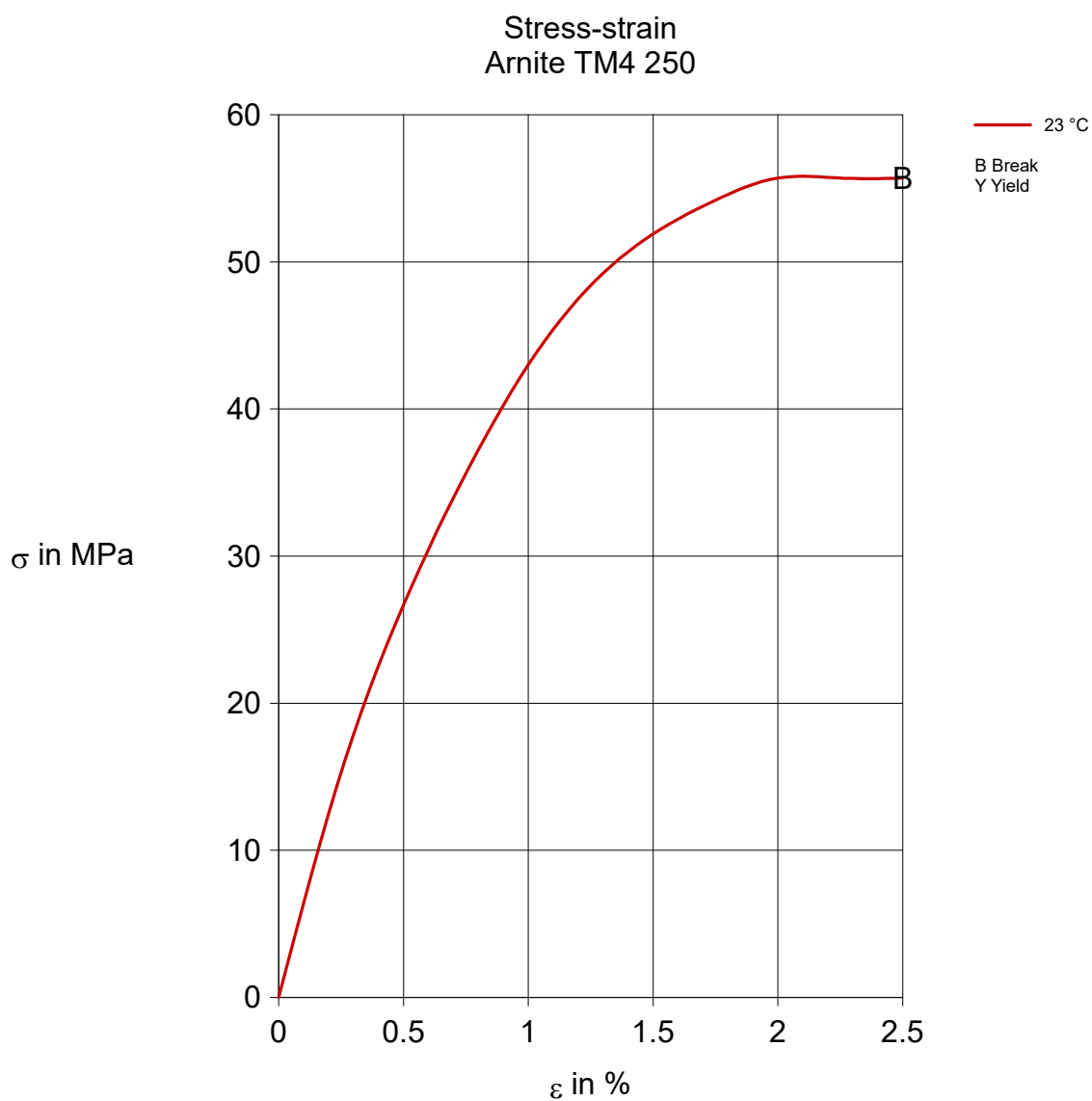
Processing conditions acc. ISO	7792	-	ISO....-2
Injection Molding, melt temperature	250	°C	ISO 294
mold temperature	85	°C	ISO 10724
injection velocity	200	mm/s	ISO 294
pressure at hold	-	MPa	ISO 294
Compression Molding, molding temperature	*	°C	ISO 293
cooling rate	*	K/min	ISO 293
molding time	*	min	ISO 293
demolding temperature	*	°C	ISO 293



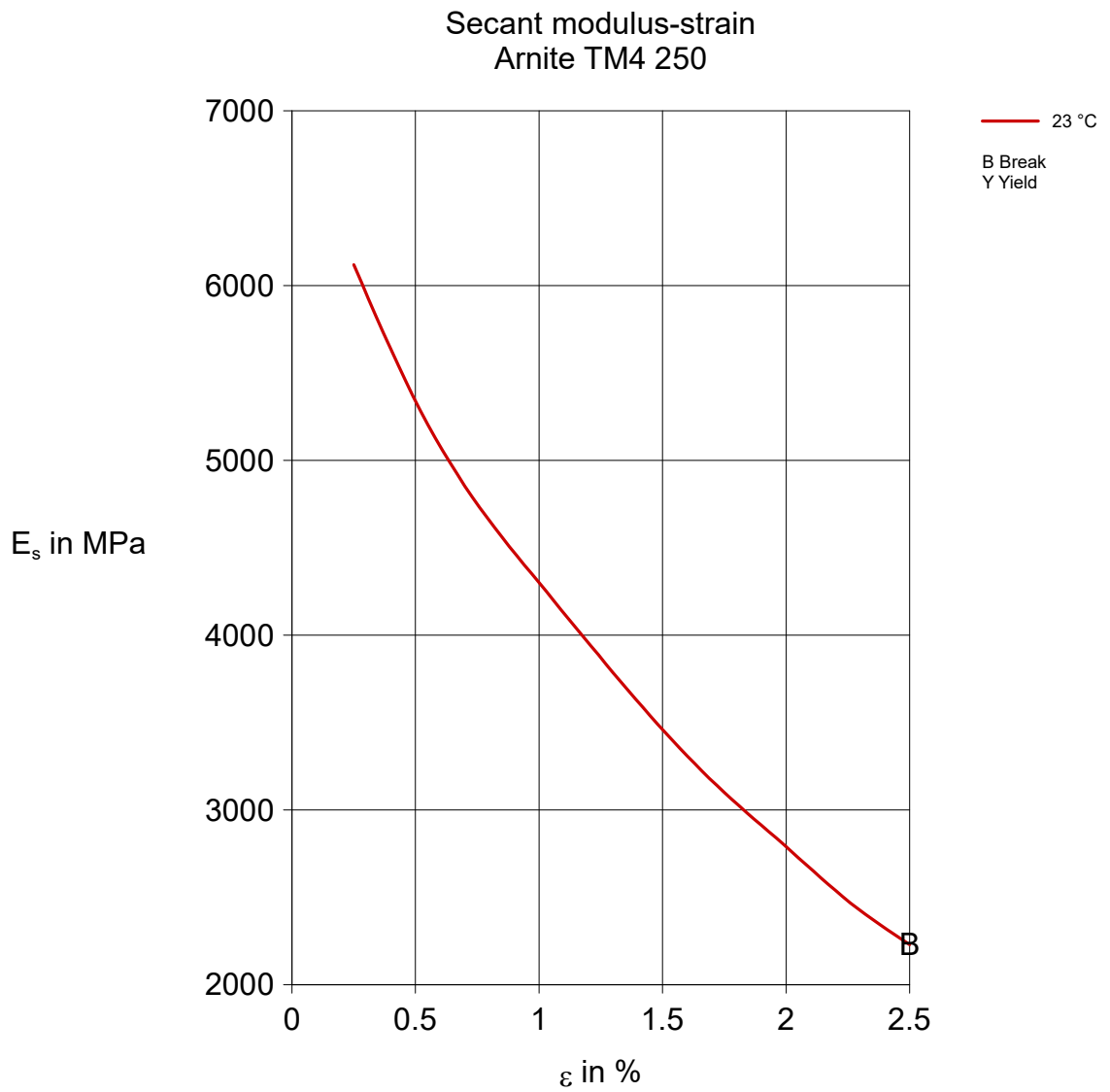
Note: The program stores curve points. The diagram shows approximations.



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