

TECHNICAL DATA SHEET

SINKRAL® B 532/E

Versalis S.p.A

ABS

Processing

Profile extrusion, Sheet extrusion, Other extrusion

Pellets

Special Characteristics

Heat stabilized or stable to heat

Delivery Form

Product Text

Product Information

Symbol according to ISO 1043-1: ABS

Designation: Thermoplastics ISO 2580-ABS 1,EGN,105-04-25-20

Sinkral B 532/E is an extrusion grade, which combines high toughness with good rigidity. Its rheological characteristics and good thermal stability are required for the production of large extruded sheet.

Applications:

Large sheets with good surface finish (coextruded or not and with high draw ratios) for a variety of uses in sectors such as refrigerator industry, sanitary, automotive, packaging and furnitures (profiles).

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	220	°C	
Load	10	kg	
Density of melt	960	kg/m ³	
Spec. heat capacity of melt	2150	J/(kg K)	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	1950	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	3	%	ISO 527
Nominal strain at break	35	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	170	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20	kJ/m ²	ISO 179/1eA

SINKRAL® B 532/E

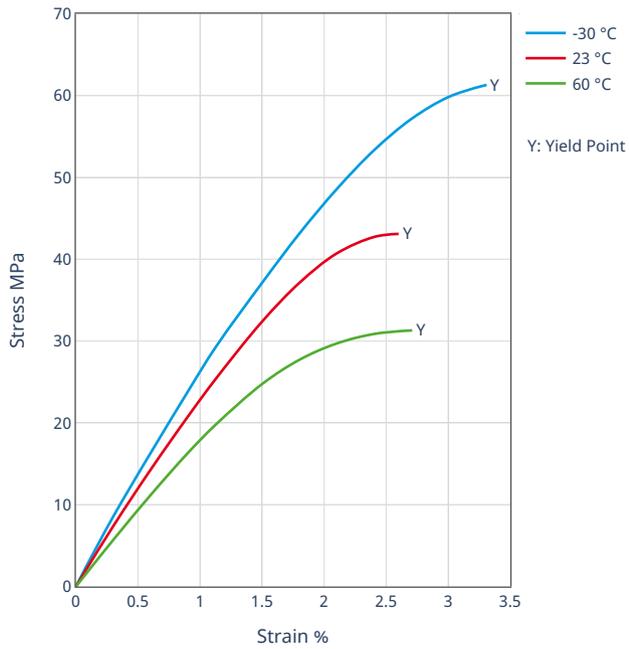
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Mechanical Properties	Value	Unit	Standard
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
Glass transition temperature, 10°C/min	108	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	81	°C	ISO 75-1/-2
Vicat softening temperature, B	104	°C	ISO 306
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	
Yellow card available	yes		
Electrical Properties			
Relative permittivity, 1MHz	3.1		IEC 62631-2-1
Dissipation factor, 1MHz	150	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112
Other Properties			
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1040	kg/m ³	ISO 1183
Test Specimen Production			
Processing conditions acc. ISO	2580		ISO-2
Injection molding, melt temperature	250	°C	ISO 294
Injection molding, mold temperature	60	°C	ISO 294
Injection molding, injection velocity	200	mm/s	ISO 294
Injection molding, pressure at hold	70	MPa	ISO 294

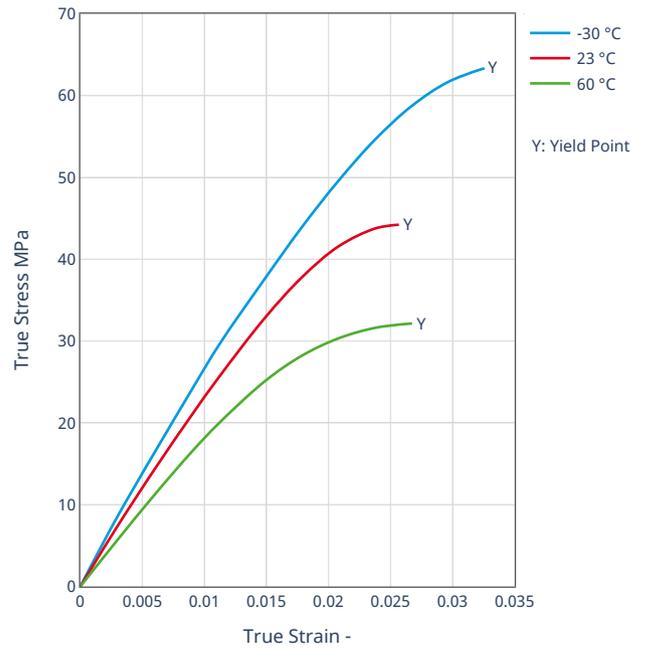
SINKRAL® B 532/E

Versalis S.p.A

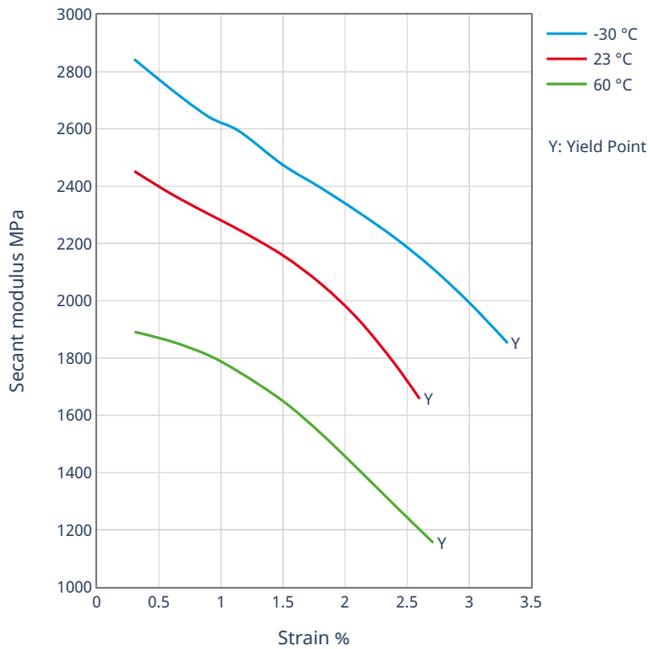
Stress-strain



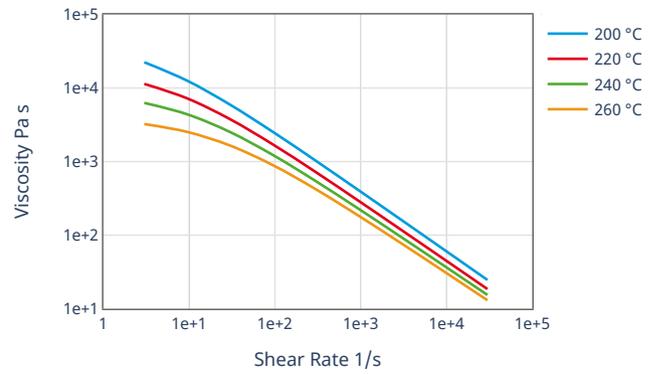
True stress-true strain



Secant modulus-strain

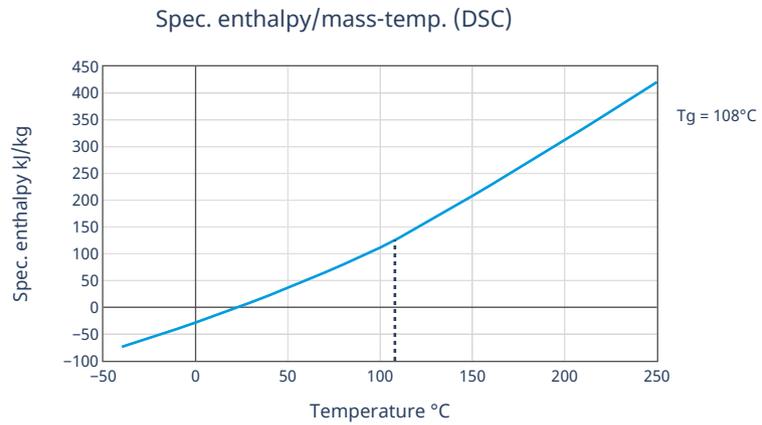
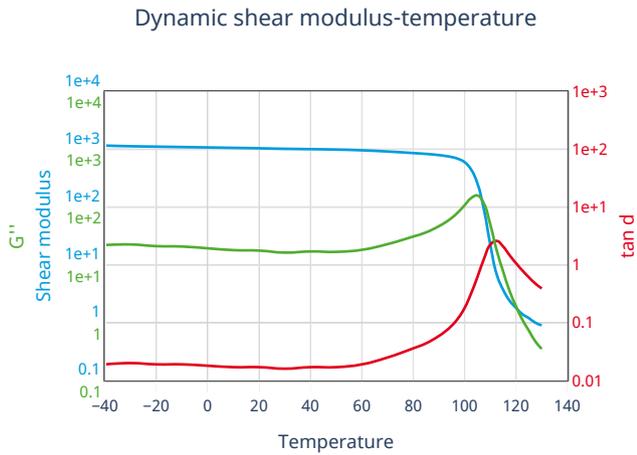
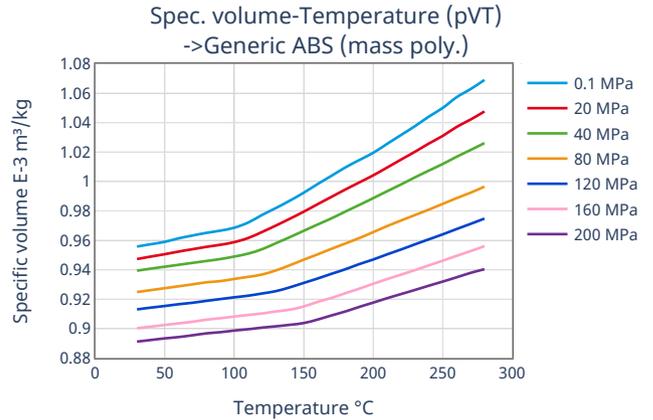


Viscosity-shear rate



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Processing Information

Other extrusion

Other extrusion
PREPROCESSING

Drying conditions if no venting:

- Drying temperature 80 °C
- Drying time 2 - 4 h
- Maximum water content 0.2 %

PROCESSING

Typical processing temperature range:
Melt temperature 190 - 230 °C

Profile extrusion

PREPROCESSING

Drying conditions if no venting:

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Versalis S.p.A

Drying temperature 80 °C
Drying time 2 - 4 h
Maximum water content 0.2 %

PROCESSING

Typical processing temperature range:

Melt temperature 190 - 230 °C

Sheet extrusion

PREPROCESSING

Drying conditions if no venting:

Drying temperature 80 °C
Drying time 2 - 4 h
Maximum water content 0.2 %

PROCESSING

Typical processing temperature range:

Melt temperature 190 - 230 °C