

SINKRAL® B 532/E

ABS

Versalis S.p.A

Product Texts

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).

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	220	°C	ISO 1133
Load	10	kg	ISO 1133
Mechanical properties			
ISO Data			
Tensile Modulus	2250	MPa	ISO 527-1/-2
Yield stress	45	MPa	ISO 527-1/-2
Yield strain	3	%	ISO 527-1/-2
Nominal strain at break	35	%	ISO 527-1/-2
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
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
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, 50°C/h 50N	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	IEC 60695-11-10
UL recognition	UL	-	-
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.1	-	IEC 60250
Dissipation factor, 1MHz	150	E-4	IEC 60250
Volume resistivity	1E13	Ohm*m	IEC 60093
Surface resistivity	1E14	Ohm	IEC 60093
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties			
ISO Data			
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1040	kg/m ³	ISO 1183

SINKRAL® B 532/E

ABS

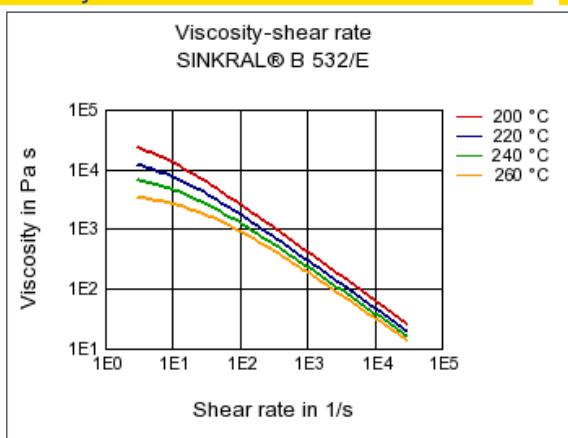
Versalis S.p.A

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	960	kg/m ³	-
Spec. heat capacity of melt	2150	J/(kg K)	-

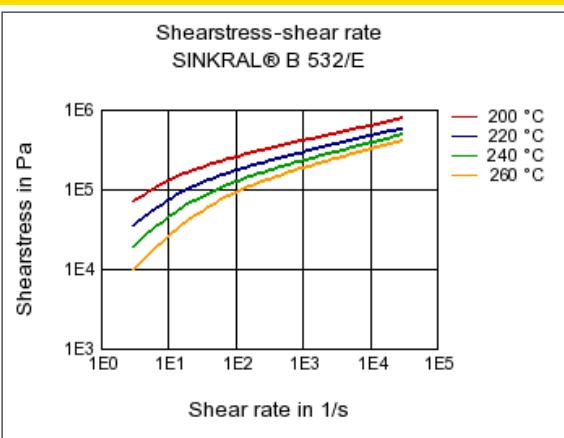
Test specimen production	Value	Unit	Test Standard
ISO Data			
Processing conditions acc. ISO	2580	-	ISO-2
Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 10724
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	70	MPa	ISO 294

Diagrams

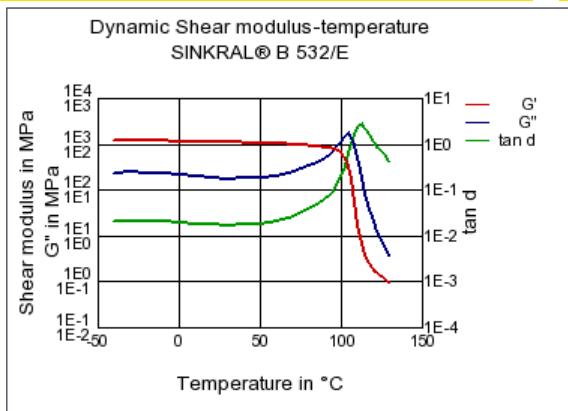
Viscosity-shear rate



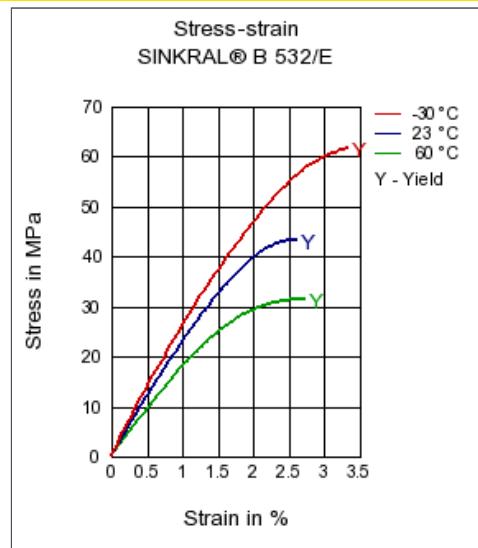
Shearstress-shear rate



Dynamic Shear modulus-temperature



Stress-strain

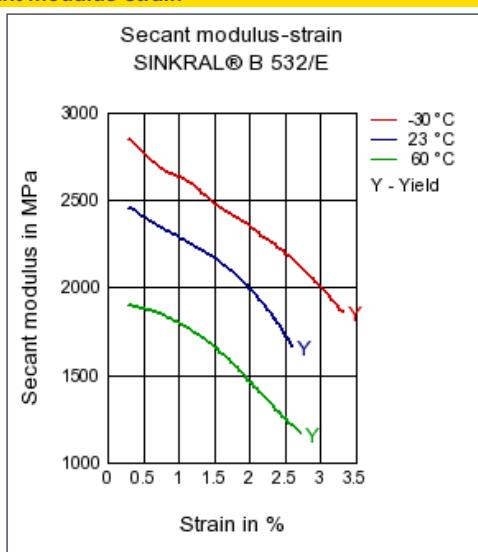


SINKRAL® B 532/E

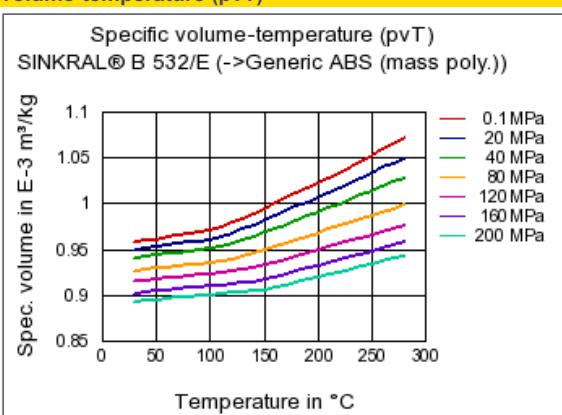
ABS

Versalis S.p.A

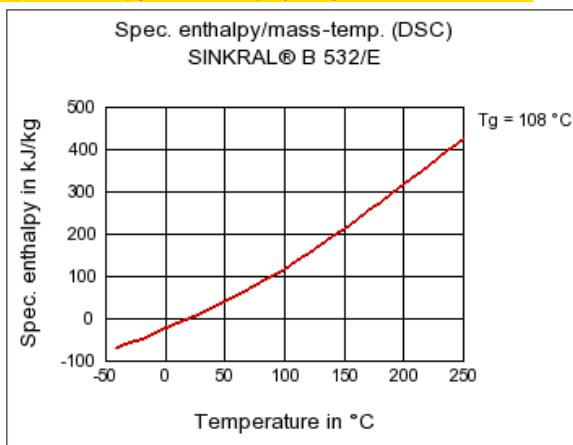
Secant modulus-strain



Specific volume-temperature (pvT)



Spec. enthalpy/mass-temp. (DSC)



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Other text information

Other extrusion

Otherextrusion
PREPROCESSING
Drying conditions if no venting:
Drying temperature80 °C
Drying time2- 4 h
Maximum water content0.2%

PROCESSING

Typical processing temperature range:
Melt temperature190 - 230 °C

Profile extrusion

PREPROCESSING
Drying conditions if no venting:

SINKRAL® B 532/E

ABS

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