TECHNICAL DATA SHEET

KOSTIL® B 266(1)

Versalis S.p.A

SAN

Processing

Injection molding, Profile extrusion, Sheet extrusion, Blow molding

Delivery Form

Pellets

Special Characteristics

Transparent

Product Text

Product Information

Symbol according to ISO 1043-1: SAN
Designation: Thermoplastics ISO 4894-SAN 2,MRS,105-15

Kostil B 266 is a Styrene-Acrylonitrile copolymer with a good chemical resistance and a very low residual monomers content.
This general purpose grade is characterised by its high clarity and its good mechanical properties.

Applications:
Household and small domestic appliances, large appliances (inside parts). Cosmetic, medical and pharmaceutical items.
Components for copier, printer and fax.
Lighting fittings.
Kostil B 266 is available in some standard transparent colours (2000, 2005, 2030, 2050).
It can also be supplied, on request, in other transparent or opaque shades and/or in UV stabilised versions and be delivered in those cases in cylindrical pellets under the name Kostil B 261.

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	18	cm³/10min	ISO 1133
Temperature	220	°C	
Load	10	kg	
Density of melt	990	kg/m³	
Spec. heat capacity of melt	2150	J/(kg K)	

Mechanical Properties	Value	Unit	Standard
Tensile modulus	3450	MPa	ISO 527
Stress at break	67	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Poisson's ratio	0.35		ISO 527

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Mechanical Properties	Value	Unit	Standard
Charpy impact strength, +23°C	16	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	16	kJ/m²	ISO 179/1eU

Thermal Properties	Value	Unit	Standard
Glass transition temperature, 10°C/min	106	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	86	°C	ISO 75-1/-2
Vicat softening temperature, B	105	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	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	Value	Unit	Standard
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2

Other Properties	Value	Unit	Standard
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1070	kg/m³	ISO 1183

Test Specimen Production	Value	Unit	Standard
Processing conditions acc. ISO	4894		ISO ....-2
Injection molding, melt temperature	240	°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

Diagrams

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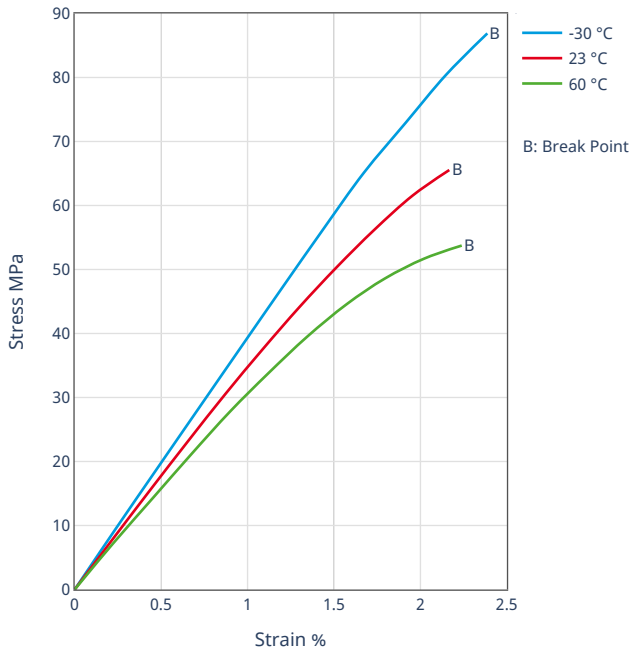
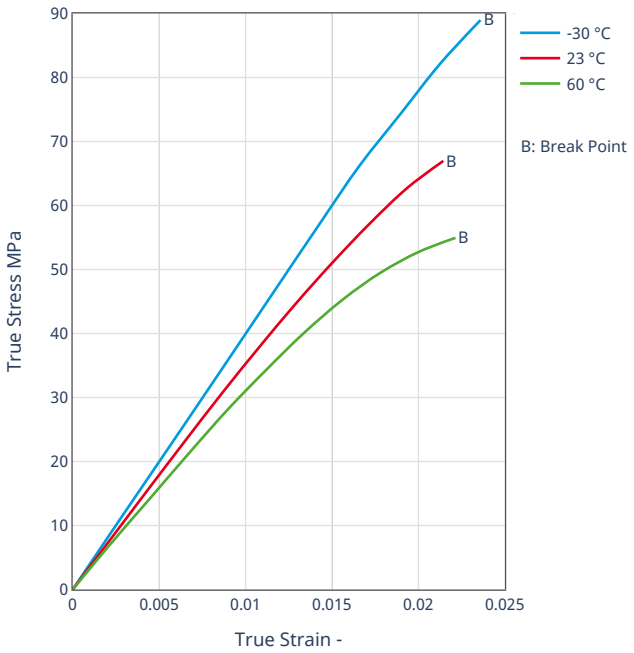
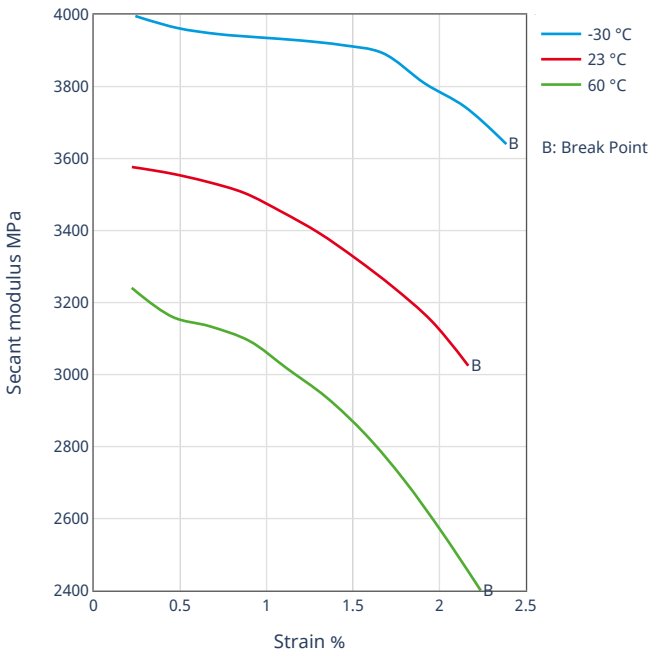
Stress-strain



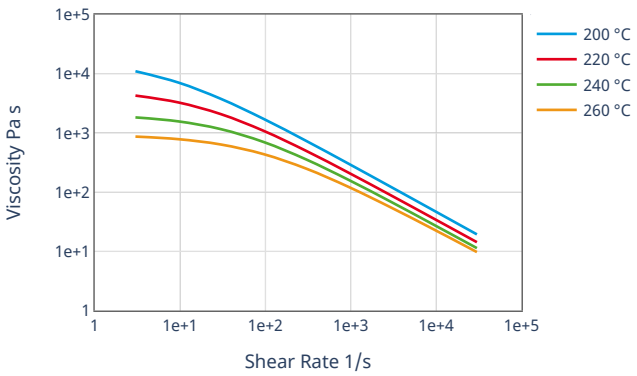
True stress-true strain



Secant modulus-strain



Viscosity-shear rate



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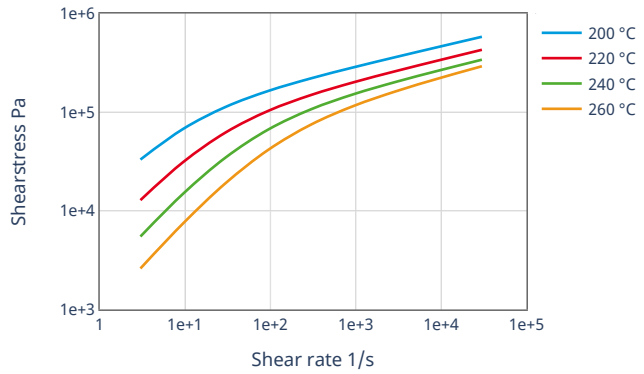
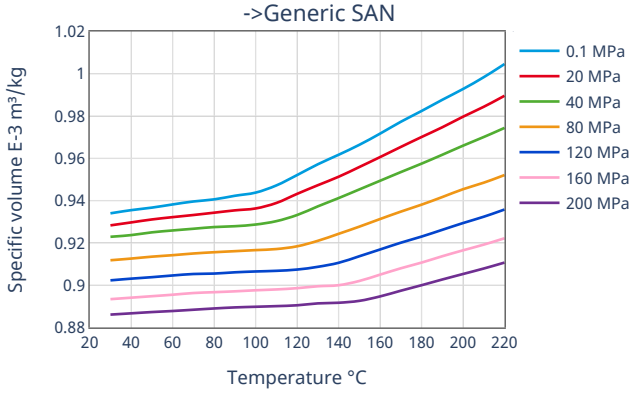
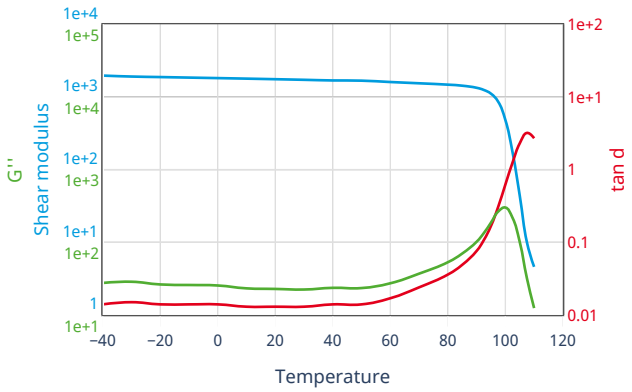
Shearstress-shear rate



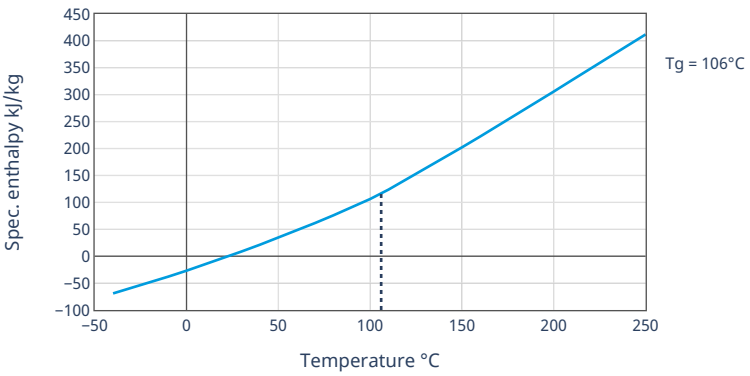
Spec. volume-Temperature (pVT)
->Generic SAN



Dynamic shear modulus-temperature



Spec. enthalpy/mass-temp. (DSC)



Processing Information

Injection molding

Injection Molding
PREPROCESSING
Drying conditions:

Drying temperature	80 °C
Drying time	1-2 h

PROCESSING
Typical processing temperature range:

Melt temperature	200 - 250 °C
Mold temperature	40 - 75 °C

Profile extrusion

PREPROCESSING
Drying conditions:

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Drying temperature	80 °C
Drying time	1-2 h

PROCESSING

Melt temperature	190 - 220 °C

Sheet extrusion

PREPROCESSING

Drying conditions:

Drying temperature	80 °C
Drying time	1-2 h

PROCESSING

Melt temperature	190 - 220 °C