KOSTIL® B 266(1)

SAN Versalis S.p.A

Product Texts

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 goodmechanical 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.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	18	cm³/10min	ISO 1133
Temperature	220	°C	ISO 1133
Load	10	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3450	MPa	ISO 527-1/-2
Stress at break	67	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
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	Test Standard
ISO Data			
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, 50°C/h 50N	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	IEC 60695-11-10
UL recognition	UL	-	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093

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

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	990	kg/m³	-
Spec. heat capacity of melt	2150	J/(kg K)	-

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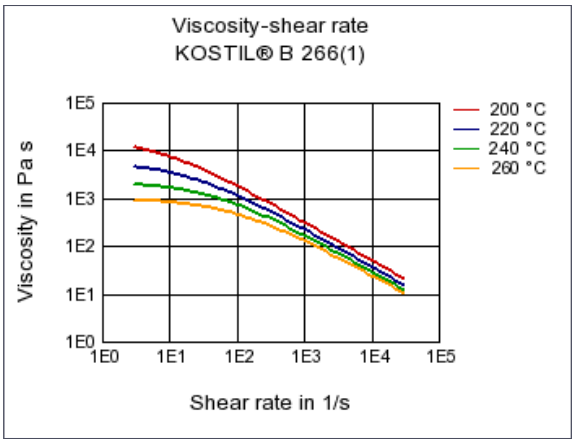
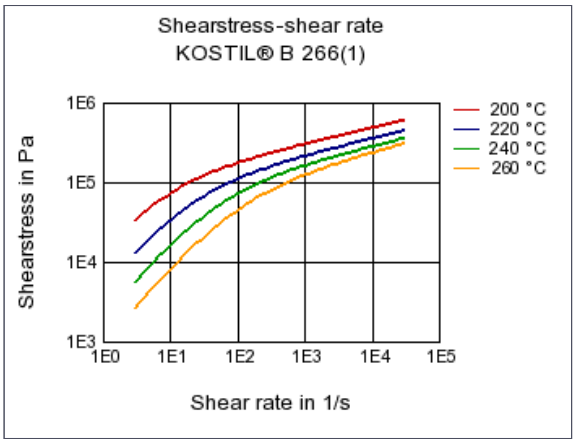
Test specimen production	Value	Unit	Test Standard
ISO Data			
Processing conditions acc. ISO	4890	-	ISO ....-2
Injection Molding, melt temperature	240	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 10724
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	70	MPa	ISO 294

Diagrams

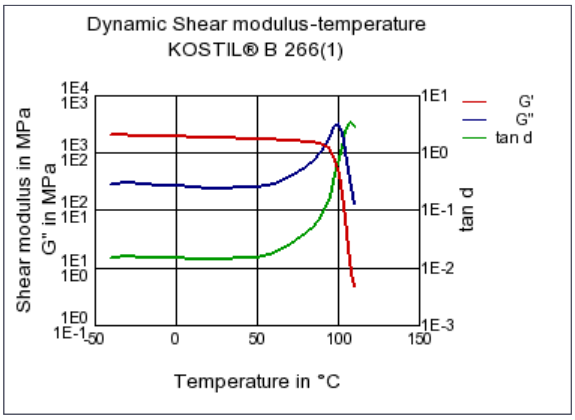
Viscosity-shear rate



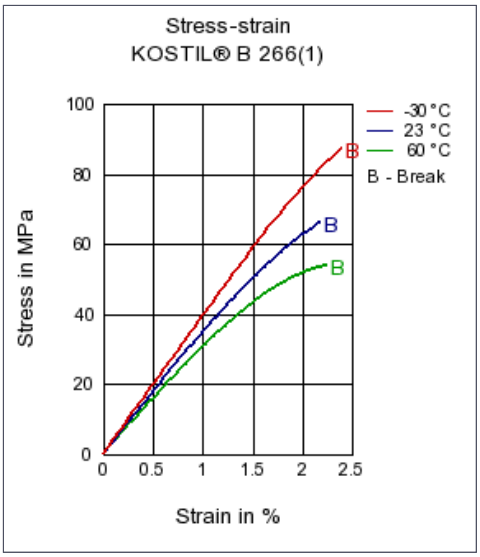
Shearstress-shear rate



Dynamic Shear modulus-temperature



Stress-strain



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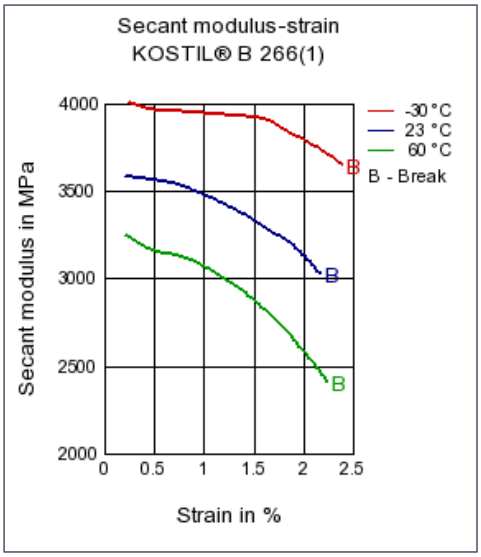
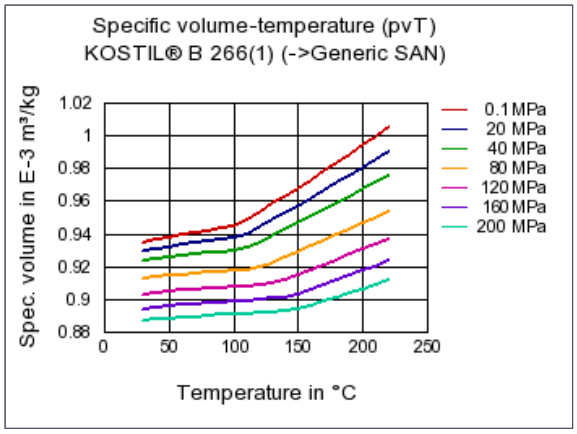
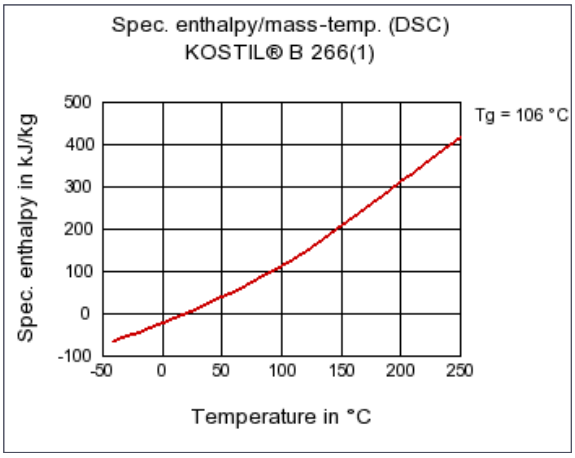
Secant modulus-strain



Specific volume-temperature (pvT)



Spec. enthalpy/mass-temp. (DSC)



Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Blow Molding

Special Characteristics

Transparent

Delivery form

Pellets

Other text information

Injection Molding

0 Injection Molding
PREPROCESSING
Drying conditions:
Drying temperature80°C
Drying time1-2 h

PROCESSING
Typical processing temperature range:
Melt temperature

Profile extrusion

PREPROCESSING
Drying conditions:

Drying temperature80 °C
Drying time1-2 h

PROCESSING
Melt temperature190 - 220 °C

Sheet extrusion

PREPROCESSING
Drying conditions:
Drying temperature80 °C
Drying time1-2 h

PROCESSING
Melt temperature190 - 220 °C