

## TECHNICAL DATA SHEET

# KOSTIL® B 366(1)

Versalis S.p.A  
SAN

### Processing

Injection molding

Pellets

### Special Characteristics

Transparent

### Delivery Form

## Product Text

### Product Information

Symbol according to ISO 1043-1: SAN

Designation: Thermoplastics ISO 4894-SAN 2,MRS,105-25

Kostil B 366 is a Styrene-Acrylonitrile copolymer with a good chemical resistance and a very low residual monomers content.

This easy flow grade exhibits a high clarity and it is designed for the moulding of items with complex shapes and/or with thin walls with fast cycles.

Kostil B 366 is recommended for injection moulding.

Applications:

Lighting, bathroom furnishing, catering (cups, trays), stationery, toys, displays.

Cosmetic, medical and pharmaceutical items.

Kostil B 366 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 361.

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	30	cm <sup>3</sup> /10min	ISO 1133
Temperature	220	°C	
Load	10	kg	
Density of melt	990	kg/m <sup>3</sup>	
Spec. heat capacity of melt	2150	J/(kg K)	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	3450	MPa	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Poisson's ratio	0.35		ISO 527

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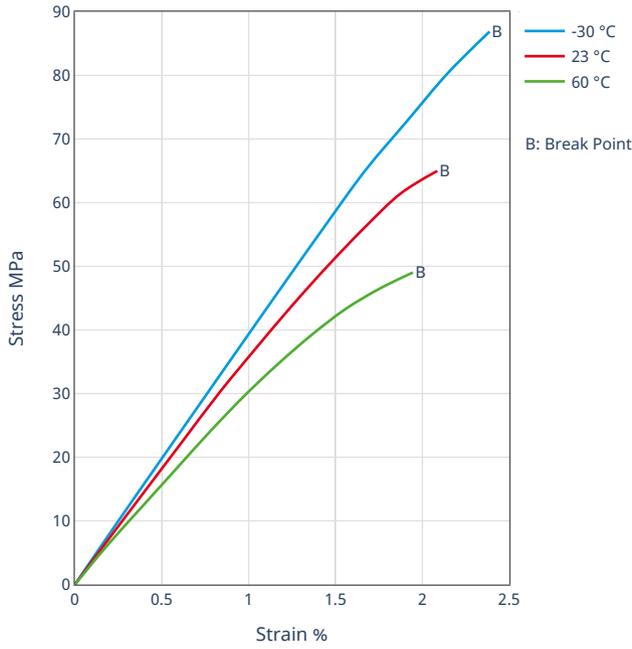
Mechanical Properties	Value	Unit	Standard
Charpy impact strength, +23°C	14	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	14	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal Properties	Value	Unit	Standard
Glass transition temperature, 10°C/min	105	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 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/m <sup>3</sup>	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

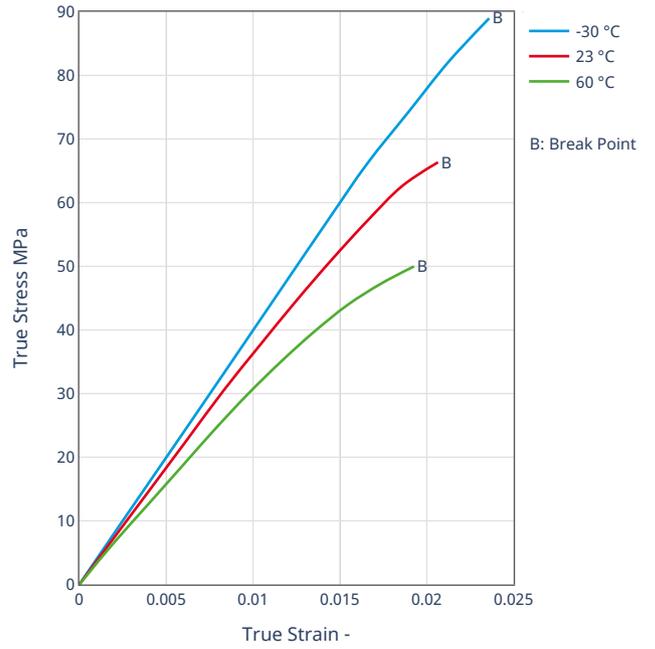
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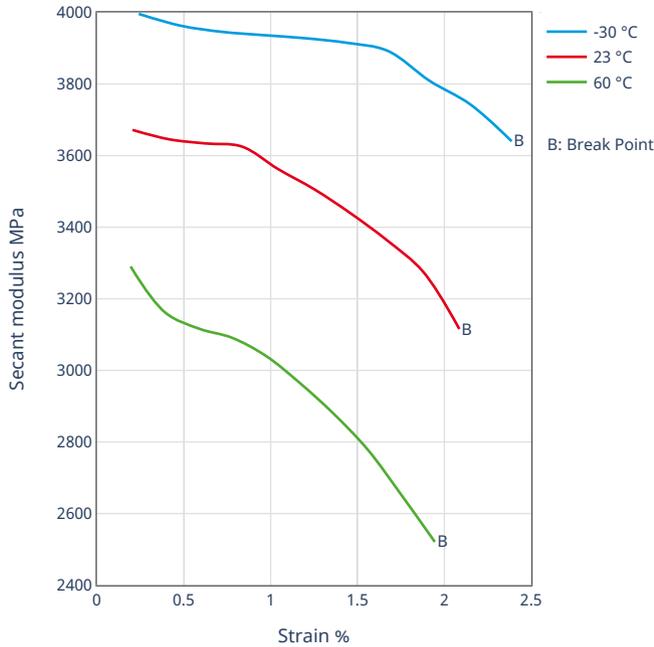
### Stress-strain



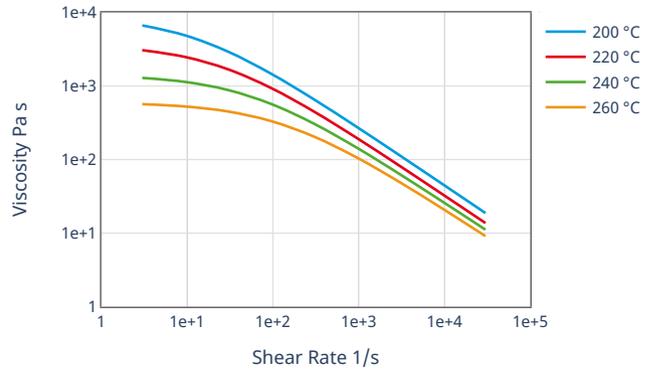
### True stress-true strain



### Secant modulus-strain



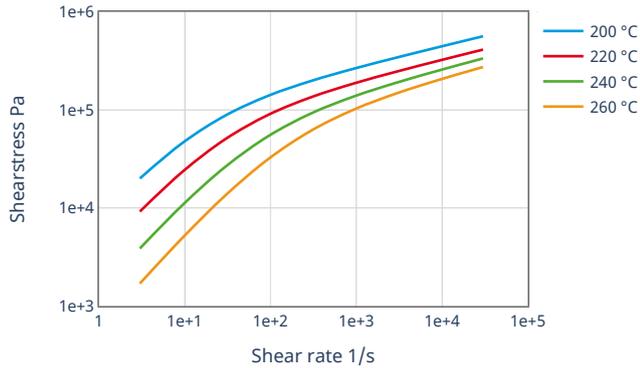
### Viscosity-shear rate



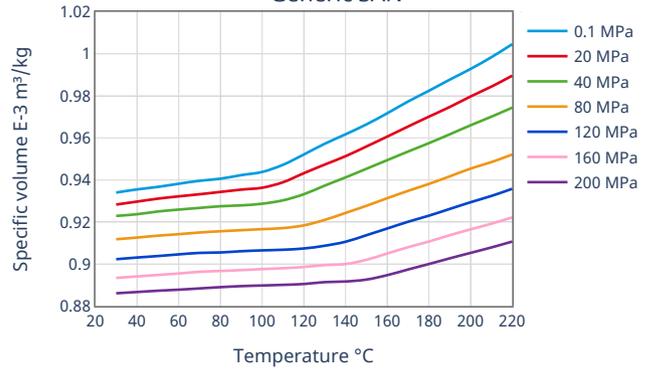
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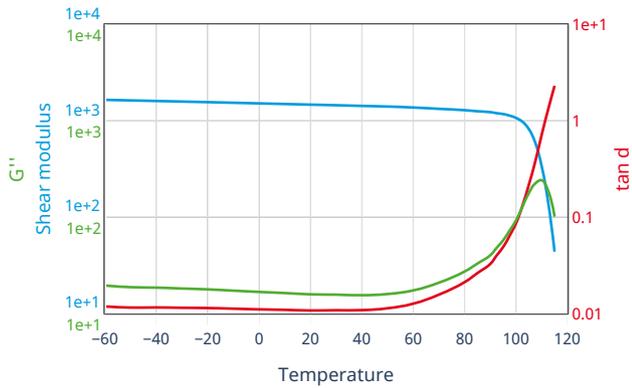
Shearstress-shear rate



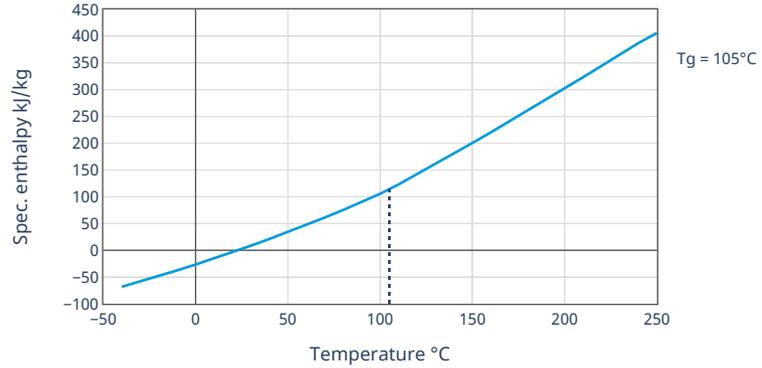
Spec. volume-Temperature (pVT)  
->Generic SAN



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        190 - 250 °C  
Mold temperature        40 - 75 °C