

# STYRENICS

## Kostil® B 366 Balance BA75

 SAN  
 SAN bio-attributed


### SUSTAINABILITY

Bio raw materials can be used in production processes together with traditional ones. To attribute the characteristics of sustainability to the final product, Versalis applies the **Mass Balance** approach, an acknowledged chain of custody that ensures the allocation of sustainability characteristics of raw materials, to final products in a regulated and verifiable manner.

Balance® BA products are provided with a **sustainability declaration** indicating the amount of Bio Attributed component. They guarantee identical performance, quality and properties, as they do not differ in chemical composition and physical-mechanical performance from standard products.

The production of Kostil® B 366 Balance BA75 contributes to the circular economy model since the bionafta comes from biological feedstock (eg. vegetable oils).

Balance® BA75 products have 75% of bio-attributed share.

### PROPERTIES

General	Test Conditions	Test Method	Unit	Value
Water Absorption	24 h - 23°C	ISO 62	%	< 0,2
Density	-	ISO 1183	g/cm <sup>3</sup>	1,07
<b>Rheological</b>				
Melt Flow Index	220 °C - 10 kg	ISO 1133	g/10'	30
Melt Flow Index	220 °C - 5 kg	ISO 1133	g/10'	10
<b>Mechanical</b>				
Tensile strain at break	5 mm / min	ISO 527	%	2,2
Tensile stress at break	5 mm / min	ISO 527	MPa	66
Rockwell Hardness	M Scale	ISO 2039/2	-	M 83
Tensile Modulus	1 mm / min	ISO 527	MPa	3500
Charpy Impact Strength, unnotched	+ 23 °C	ISO 179/1eA	kJ/m <sup>2</sup>	11
Flexural strength	2 mm / min	ISO 178	MPa	101
<b>Thermal</b>				
Coefficient of Linear Thermal Expansion	-	ISO 11359-2	10 <sup>-5</sup> / °C	7
Moulding Shrinkage	-	ISO 294/4	%	0,4 ÷ 0,6
Vicat Softening Temperature	10 N - 50 °C/h	ISO 306/A	°C	108
Vicat Softening Temperature	50 N - 50 °C/h	ISO 306/B	°C	105
Deflection temperature under load (annealed)	1,8 MPa - 120°C/h	ISO 75-2	°C	98
<b>Flammability</b>				
Flame Behaviour	1,5 mm	UL 94*	cl.	HB

\*internal test



KOSTIL® SAN bio-attributed

B 366 Balance BA75

## APPLICATIONS

Kostil® B 366 Balance BA75 is suitable for:

- Household and small appliances
- Cosmetics
- Medical and pharmaceutical articles
- Lighting
- Furnishing
- Sneeze screen (e.g anti-Covid)
- Catering
- Toys and stationery

## PROCESSABILITY



Injection Moulding:

- Dry for 2 - 4h at 80°C
- Melt Temperature 190 -250°C
- Mould Temperature 40 - 75°C

Extrusion:

- If no venting, predry 1 -2 h at 80°C in circulated air oven
- Melt temperature 180 - 240°C

## STORAGE

-  Store away from atmospheric agents and direct sunlight, away from sources of heat and light.
-  The product, if stored correctly, keeps its characteristics for at least fifteen months.

## AVAILABILITY

To find out about the availability of the resin and for information on specific applications, please contact the nearest Versalis sales office.

Kostil® B 366 Balance BA75 is available in three color shades:

- Natural B 366 2000
- Light blu B 366 2030
- Water clear B 366 2050

## FOOD DECLARATION

Kostil® B 366 Balance BA75 as supplied in the original packaging, by composition is compliant to some existing regulations on plastic materials intended for food contact.

## TECHNICAL MANAGEMENT STYRENICS AND CLIENT RELATIONSHIP

For further information, please contact Versalis directly writing to [info.styrenics@versalis.eni.com](mailto:info.styrenics@versalis.eni.com).

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**PLEASE NOTE:** please consult the relevant safety data sheet for more detailed information. The information and data contained in this document are indications that do not constitute a guarantee if the buyer does not fulfill the obligations and requirements of the case. Versalis is available for any suggestions and further information.

**DISCLAIMER:** it is the responsibility of the end user to verify the safety, regulatory compliance and technical suitability of the product for the specific application.