

STYRENICS

Kostil® B 366 Balance BCA75

SAN
SAN bio-circular attributed



SUSTAINABILITY

Bio-circular 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® BCA products are provided with a **sustainability declaration** indicating the amount of Bio-Circular 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 BCA75 contributes to the circular economy model since the bionafta comes from wastes or by-products of industrial processing of organic substances (e.g. used Cooking Oil and yellow greases).

Balance® BCA75 products have 75% of bio-circular 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 ³	1,07
Rheological				
Melt Flow Index	220 °C - 10 kg	ISO 1133	g/10'	30
Melt Flow Index	220 °C - 5 kg	ISO 1133	g/10'	10
Mechanical				
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 ²	11
Flexural strength	2 mm / min	ISO 178	MPa	101
Thermal				
Coefficient of Linear Thermal Expansion	-	ISO 11359-2	10-5 / °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
Flammability				
Flame Behaviour	1,5 mm	UL 94*	cl.	HB

*internal test



KOSTIL® SAN bio-circular attributed

B 366 Balance BCA75

APPLICATIONS

Kostil® B 366 Balance BCA75 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 BCA75 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 BCA75 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.

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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.