

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 bio-nafta 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 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





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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.

