



Provisional Technical Data Sheet

STYRENICS Sinkral® F 332 Balance BCA65

ABS
ABS 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 Sinkral® F 332 Balance BCA65 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® BCA65 products have 65% of bio-circular attributed share.

PROPERTIES

General	Test Conditions	Test Method	Unit	Value
Water Absorption	24 h - 23°C	ISO 62	%	0,3
Density	-	ISO 1183	g/cm ³	1,04
Rheological				
Melt Flow Index	220 °C - 10 kg	ISO 1133	g/10'	15
Mechanical				
Strain Yield	50 mm / min	ISO 527	%	3,0
Tensile stress at Yield	50 mm / min	ISO 527	MPa	48
Rockwell Hardness	R Scale	ISO 2039/2	-	110
Tensile Modulus	1 mm / min	ISO 527	MPa	2400
Charpy Impact Strength, notched	+ 23 °C	ISO 179/1eA	kJ/m ²	16
Izod Impact Strength, notched	+ 23 °C - 4 mm	ISO 180/1A	kJ/m ²	17
Thermal				
Coefficient of Linear Thermal Expansion	-	ISO 11359-2	10 ⁻⁵ / °C	9
Thermal Conductivity	-	ASTM C 177	W/(K·m)	0,17
Moulding Shrinkage	-	ISO 294/4	%	0,4 ÷ 0,6
Deflection Temperature under load (annealed)	1,82 MPa - 120°C/h	ISO 75A	°C	97
Vicat Softening Temperature	50 N - 50 °C/h	ISO 306/B	°C	98
Flammability				
Flame Behaviour	1,5 mm	UL 94*	cl.	HB
Glow Wire Test (GWT)	3 mm	IEC 60695-2-10	°C	650

*internal test



SINKRAL® ABS bio-circular attributed

F 332 Balance BCA65

APPLICATIONS

Sinkral® F 332 Balance BCA65 is suitable for:



- Small Household Appliances
- Shoe heels
- Electrical Components
- Sanitary
- Compounds

PROCESSABILITY

Injection Moulding:

- Dry for 1 - 2h at 80°C
- Melt Temperature 230 -270°C
- Mould Temperature 40 - 70°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.

FOOD DECLARATION

Sinkral® F 332 Balance BCA65 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.