



GREENFLEX® FL 65 BCA

EVA
Ethylene vinyl acetate copolymer bio circular attributed



SUSTAINABILITY

The product Greenflex FL 65 BCA 'Bio Circular attributed' is a highly sustainable EVA produced using bionafta from renewable raw materials together with traditional raw materials. In order to attribute the sustainable feedstock component to the final product Versalis applies the Mass Balance approach, a recognized methodology that allows to trace the flow of materials along the value chain and to assign the sustainability characteristic of the raw material to the final product on a documentary basis. Greenflex FL 65 BCA provides the same chemical composition and physical-mechanical performance of the traditional grade, in addition is accompanied by a sustainability declaration that certifies the share of bio attributed product. It is an ethylene vinyl acetate copolymer for extrusion/co-extrusion blown and cast film. The production of Greenflex FL 65 BCA allows to contribute to the circular economy, since the bionafta used derives from waste from industrial processing of organic substances (e.g. used cooking oils). Greenflex FL 65 BCA will be bio circular attributed for 72%. The exact amount of 'bio circular attributed' product will be reported in the sustainability certificate issued upon the delivery of the product.

MAIN PROPERTIES

Resin Properties	Value	Unit	Test method
Melt Flow Rate (190 °C/2,16 kg)	2,5	g/10min	ISO 1133
Vinyl acetate content	28	%	Internal Method
Density	0,952	g/cm ³	ISO 1183
Melting Point	74	°C	Internal Method
Brittleness temperature	< -80	°C	ASTM D 746
Vicat softening point (1 kg)	44	°C	ISO 306/A
Film Properties *	Value	Unit	Test method
Tensile stress at yield MD	4	MPa	ISO 527-3
Tensile stress at yield TD	3,5	MPa	ISO 527-3
Tensile stress at break MD	31	MPa	ISO 527-3
Tensile stress at break TD	28	MPa	ISO 527-3
Elongation at break MD	600	%	ISO 527-3
Elongation at break TD	800	%	ISO 527-3
1% Secant modulus MD	45	MPa	ISO 527-3
1% Secant modulus TD	55	MPa	ISO 527-3
Elmendorf tear resistance MD	20	N/mm	ISO 6383-2
Elmendorf tear resistance TD	50	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	500	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	> 0,5	-	ISO 8295
Haze	1	%	ISO 14782
Gloss, 45°	90	%	ASTM D 2457
Recommended film thickness	25 + 80	micron	-
Mechanical Properties **	Value	Unit	Test method
Shore A	75	Shore A	ISO 868 A
D	32	Shore D	ISO 868 A





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MAIN APPLICATIONS

Greenflex FL 65 BCA is recommended for the production of co-extrusion film, lamination film, stretch film, barrier film for food packaging and all those applications where the typical purity of film grades is required. In coextruded structures it can be used as a compatibilizer with polymers of different nature. Films produced with Greenflex FL 65 BCA show a low fish eyes content, very high elasticity, good optical properties, good sealability at low temperatures.

PROCESSING NOTES

Greenflex FL 65 BCA can be processed by conventional blown film extrusion equipments. Operation temperature from 150 °C to 180 °C is recommended. Depending on extrusion conditions, the suggested film thickness is 30÷150 µm.

STORAGE AND HANDLING

Greenflex FL 65 BCA is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletized polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practiced throughout your facility. The product should be stored in dry conditions at temperatures below 50°C and protected from sunlight. Improper storage can initiate degradation which results in odor generation, color changes and can have negative effects on the physical properties of the product. Before using this product, it is recommended to read and understand the relevant Safety Data Sheet.

AVAILABILITY

Contact the Versalis sales office nearest to you regarding availability and your specific application requirements.

FOOD CONTACT STATUS

Greenflex FL 65 BCA complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

