



GREENFLEX® ML 21 BCA

EVA
Ethylene vinyl acetate copolymer bio circular attributed



SUSTAINABILITY

The product Greenflex ML 21 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 ML 21 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 (EVA) for injection moulding applications and it is recommended when a good ESCR is required. The production of Greenflex ML 21 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 ML 21 BCA will be bio circular attributed for 94%. 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	6	%	Internal Method
Density	0,925	g/cm ³	ISO 1183
Melting Point	101	°C	Internal Method
Brittleness temperature	< -80	°C	ASTM D 746
Vicat softening point (1 kg)	78	°C	ISO 306/A
Mechanical Properties *	Value	Unit	Test method
Tensile stress at yield	8	MPa	ISO 527
Tensile stress at break	-	MPa	ISO 527
Elongation at break	-	%	ISO 527
Flexural modulus	100	MPa	ISO 178
Shore A	95	Shore A	ISO 868 A
Shore D	43	Shore D	ISO 868 A





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MAIN APPLICATIONS

Greenflex ML 21 BCA is recommended for the production of flexible items. Greenflex ML 21 BCA, thanks to its particular additives with waxes, can be used at a high transformation speed to obtain high productivity.

PROCESSING NOTES

Greenflex ML 21 BCA is easy to mould with the newest injection moulding machines with excellent results. Typical processing conditions: **
Operation temperature (°C): 150 - 210
Mould temperature (°C): 10 - 30

(**) Processing conditions are depending on several parameters: the shape of the part to be manufactured, the localisation of the injection point, the injection moulding machine and the cooling of the mould.

STORAGE AND HANDLING

Greenflex ML 21 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 ML 21 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.

