GREENFLEX®
MH 40 BCA

E V A
Ethylene vinyl acetate copolymer bio circular attributed

ISCC
International Sustainability
& Carbon Certification

SUSTAINABILITY

The product Greenflex MH 40 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 MH 40 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 and extrusion. The production of Greenflex MH 40 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 MH 40 BCA will be bio circular attributed for 83%. 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)	1,8	g/10min	ISO 1133
Vinyl acetate content	17	%	Internal Method
Density	0,938	g/cm^3	ISO 1183
Melting Point	88	°C	Internal Method
Brittleness temperature	< -80	°C	ASTM D 746
Vicat softening point (1 kg)	65	°C	ISO 306/A
Mechanical Properties *	**Value**	**Unit**	**Test method**
Tensile stress at yield	5,6	MPa	ISO 527
Tensile stress at break	-	MPa	ISO 527
Elongation at break	-	%	ISO 527
Flexural modulus	40	MPa	ISO 178
Shore A	89	Shore A	ISO 868 A
Shore D	36	Shore D	ISO 868 A

MAIN APPLICATIONS

Greenflex MH 40 BCA is recommended for the production flexible items, foamed and crosslinked sheets for shoes. Items produced with Greenflex MH 40 BCA show high elasticity and good mechanical properties.

PROCESSING NOTES

Greenflex ML 40 BCA is readily processable by the latest injection moulding equipments with excellent results. Typical processing conditions: **
Operation temperature (°C): 140 – 200
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 MH 40 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 MH 40 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.