



# ERACLENE® BB 76 BCA

HDPE  
High density polyethylene bio circular attributed



## SUSTAINABILITY

The product Eraclene BB 76 BCA 'Bio Circular attributed' is a highly sustainable HDPE 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. Eraclene BB 76 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 a high density polyethylene resin with antioxidants, suitable for blow moulding application. The production of Eraclene BB 76 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). Eraclene BB 76 BCA will be bio circular attributed for 95%. 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)	-	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	0.4	g/10min	ISO 1133
Melt Flow Rate (190 °C/21.6 kg)	10	g/10min	ISO 1133
Density	0.952	g/cm <sup>3</sup>	ISO 1183
Melting Point	131	°C	Metodo interno
Brittleness temperature	<- 60	°C	ASTM D 746
Vicat softening point (1 kg)	126	°C	ISO 306/A

Mechanical Properties *	Value	Unit	Test method
Tensile stress at yield	27	MPa	ISO 527
Tensile stress at break	30	MPa	ISO 527
Tensile strain at yield	-	%	ISO 527
Elongation at break	>600	%	ISO 527
Flexural modulus	1200	MPa	ISO 178
Hardness Shore D	65	-	ISO 868 A
Falling weight	-	J	ISO 6603-2
Izod impact strength, notched	250	J/m	ASTM D 256
Environmental Stress Cracking Resistance (ESCR)	> 750	h	ASTM D 1693(B)





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## MAIN APPLICATIONS

Eraclene BB 76 BCA is recommended for the production of containers up to 30 liters. Eraclene BB 76 BCA combines an excellent stress cracking resistance with a good rigidity and a high impact strength. For its overall characteristics, it can be used to produce containers able to achieve UN homologation. It is the ideal resin for packaging of household and industrial chemicals, detergents, fertilizers, adhesives and pesticides and it can be also extruded to obtain profiles and sheets.

## PROCESSING NOTES

Eraclene BB 76 BCA can be processed in the latest blow moulding machines with excellent results. Moulded parts exhibit outstanding surface quality. Typical Molding Conditions:

Barrel Zone 1 Temperature Setting (°C) 180°-190

Barrel Zone 2 Temperature Setting (°C) 190°-205

Head and Die Temperature Setting (°C) 200°-210

operation Temperature (°C) 200°-210

## STORAGE AND HANDLING

Eraclene BB 76 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

Eraclene BB 76 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.

