



ERACLENE® BC 82 BA

HDPE
High density polyethylene bio attributed



SUSTAINABILITY

The product Eraclene BC 82 BA 'Bio 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 BC 82 BA 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 BC 82 BA allows to contribute to the circular economy, since the bionafta used derives from renewable resources (e.g. vegetable oils). Eraclene BC 82 BA will be bio attributed for 95%. The exact amount of 'bio 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)	0.25	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	0.9	g/10min	ISO 1133
Melt Flow Rate (190 °C/21.6 kg)	23	g/10min	ISO 1133
Density	0.954	g/cm ³	ISO 1183
Melting Point	132	°C	Metodo interno
Brittleness temperature	<- 60	°C	ASTM D 746
Vicat softening point (1 kg)	125	°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	64	-	ISO 868 A
Falling weight	-	J	ISO 6603-2
Izod impact strength, notched	180	J/m	ASTM D 256
Environmental Stress Cracking Resistance (ESCR)	> 60	h	ASTM D 1693(B)

(*) Values are referred to compression moulded specimens. Actual properties are typical and may vary depending upon operating conditions.

