Technical Data Sheet

RIBLENE®
FL 34 I BA

LDPE
Low density polyethylene bio attributed

SUSTAINABILITY

The product Riblene FL 34 I BA 'Bio attributed' is a highly sustainable LDPE 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. Riblene FL 34 I 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 low-density polyethylene additivated with slip and antiblocking agent, suitable for blown film extrusion. The production of Riblene FL 34 I BA allows to contribute to the circular economy, since the bionafta used derives from renewable resources (e.g. vegetable oils). Riblene FL 34 I BA will be bio attributed for 100%. 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)	2,1	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	-	g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	-	g/10min	ISO 1133
Density	0,923	g/cm^3	ISO 1183
Melting Point	110	°C	Metodo interno
Brittleness temperature	< -75	°C	ASTM D 746
Vicat softening point (1 kg)	93	°C	ISO 306/A

Film Properties *	Value	Unit	Test method
Tensile stress at yield MD	11	MPa	ISO 527-3
Tensile stress at yield TD	11	MPa	ISO 527-3
Tensile stress at break MD	23	MPa	ISO 527-3
Tensile stress at break TD	18	MPa	ISO 527-3
Elongation at break MD	300	%	ISO 527-3
Elongation at break TD	580	%	ISO 527-3
1% Secant modulus MD	180	MPa	ISO 527-3
1% Secant modulus TD	190	MPa	ISO 527-3
Elmendorf tear resistance MD	80	N/mm	ISO 6383-2
Elmendorf tear resistance TD	50	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	125	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	0,11	-	ISO 8295
Haze	7	%	ISO 14782
Gloss, 45°	70	%	ASTM D 2457
mended film thickness	25 ÷ 80	micron	-

塑料专家 www.ponci.com.cn/wxb/ +13538586433 +18816996168

RIBLENE LDPE / Low density polyethylene bio attributed **FL 34 I BA**

MAIN APPLICATIONS

Riblene FL 34 I BA is characterised by a good balance between processability, mechanical and optical properties. It is recommended for general blown film applications, for the production of low gauge film and shrink film and for blend. Thanks its properties is also recommended for the production of high purity film.

PROCESSING NOTES

Riblene FL 34 I BA is easily processable using blown film technology. Melt temperature should be between 160 °C and 190 °C. Recommended thickness: 25 - 80 µm.

STORAGE AND HANDLING

Riblene FL 34 I BA 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

Riblene FL 34 I BA 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.

塑料专家 www.ponci.com.cn/wxb/ +13538586433 +18816996168