



versalis

Technical Data Sheet

RIBLENE®

LDPE

AB 10

Low density polyethylene

Riblene AB 10 is a high molecular weight low density polyethylene resin (LDPE) suitable for blown film extrusion.

Riblene AB 10 is characterized by a high melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene AB 10 are easily heat shrinkable and characterized by optimum mechanical properties.

Main Applications

Riblene AB 10 is recommended for the production of greenhouse film, heavy duty shrink film and industrial bags.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	0,15	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	0.6	g/10min	ISO 1133
Melt Flow Rate (190 °C/21.6 kg)	-	g/10min	ISO 1133
Density	0.918	g/cm ³	ISO 1183
Melting Point	109	°C	Internal method
Brittleness temperature	<- 75	°C	ASTM D 746
Vicat softening point (1 kg)	91	°C	ISO 306/A

Film Properties *	Value	Unit	Test Method
Tensile stress at yield MD	9	MPa	ISO 527-3
Tensile stress at yield TD	9	MPa	ISO 527-3
Tensile stress at break MD	27	MPa	ISO 527-3
Tensile stress at break TD	25	MPa	ISO 527-3
Elongation at break MD	400	%	ISO 527-3
Elongation at break TD	600	%	ISO 527-3
1% Secant modulus MD	150	MPa	ISO 527-3
1% Secant modulus TD	180	MPa	ISO 527-3
Elmendorf tear resistance MD	25	N/mm	ISO 6383-2
Elmendorf tear resistance TD	35	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	380	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	> 0.5	-	ISO 8295
Haze	12	%	ISO 14782
Gloss, 45°	50	%	ASTM D 2457
Recommended film thickness	65 ÷ 250	micron	-



Processing notes

Riblene AB 10 is easily processable using blown film technology. Melt temperature should be between 180°C and 220°C. Recommended thickness: 60 - 250 µm.

Storage and Handling

Riblene AB 10 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.

Stored in an airy and dry room, at temperatures between 20°C and 30°C, with no direct sunlight, the shelf life is about 18 months. However, before using this product, read and understand the relevant POLIMERI EUROPA Safety Data Sheet.

Availability

Contact the versalis sales office nearest to you regarding availability and your specific application requirements

Food Contact Status

Riblene AB 10 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.

