

Riblene® AB 10

Low Density Polyethylene

Versalis S.p.A.

Message:

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.

General Information			
Features	High Melt Strength		
	High molecular weight		
	Workability, good		
	Compliance of Food Exposure		
Uses	Blown Film		
	Films		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.15	g/10 min	ISO 1133
190°C/5.0 kg	0.60	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Dynamic, Blown Film)	> 0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	70	µm	
Film Thickness - Recommended / Available	60 to 250 µm		
Tensile Modulus			ISO 527-3
1% sectioning, MD: 70 µm	150	MPa	ISO 527-3
1% sectioning, TD: 70 µm, blown film	180	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, 70 µm, blow film	9.00	MPa	ISO 527-3
TD: yield, 70 µm, blow film	9.00	MPa	ISO 527-3
MD: broken, 70 µm, blown film	27.0	MPa	ISO 527-3
TD: broken, 70 µm, blown film	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

MD: broken, 70 µm, blown film	400	%	ISO 527-3
TD: broken, 70 µm, blown film	600	%	ISO 527-3
Dart Drop Impact (70 µm, Blown Film)	380	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD: 70 µm, blown film	25	N	ISO 6383-2
TD: 70 µm, blown film	35	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	91.0	°C	ISO 306/A
Melting Temperature	109	°C	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 70.0 µm, Blown Film)	50		ASTM D2457
Haze (70.0 µm, Blown Film)	12	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 220	°C	

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