



Technical Data Sheet

Riblene® FL34

Low Density Polyethylene

DESCRIPTION

Riblene® FL34 is a low density polyethylene (LDPE), additivated with slip and anti-blocking agent, suitable for blown film extrusion. Riblene® FL34 is characterised by a good balance between processability, mechanical and optical properties. Films manufactured by Riblene® FL34 are easily heat shrinkable.

APPLICATIONS

Riblene® FL34 is recommended for general blown film applications, for the production of low gauge film and shrink film, and for blends.

PROPERTIES

TYPICAL

Properties	Test Method	Typical value
Resin Properties		
Melt Flow Index _{190 °C / 2.16 kg (g/10')}	ASTM D1238	2.1
Density (g/cm ³)	ASTM D1505	0,924
Melting point (°C)	PE	114
Brittleness point (°C)	ASTM D746	<-75
Vicat softening point _{1 kg} (°C)	ASTM D1525	93
Slip agent level	PE	high
Antiblocking level	PE	medium
Film Properties¹ - Thickness 40 µm		
Tensile strength at yield (MPa)	MD	11
	TD	11
Tensile strength at break (MPa)	MD	23
	TD	18
Elongation at break (%)	MD	300
	TD	580
1% Secant Modulus (MPa)	MD	180
	TD	190
Tear resistance (Elmendorf) (N/mm)	MD	80
	TD	50
Impact resistance, F ₅₀ (g) (Dart Drop Test)	ASTM D1709	125
Coefficient of Friction (dynamic)	ASTM D1894	0.11
Haze (%)	ASTM D1003	6.5
Gloss, 45° (%)	ASTM D2457	65

¹ Typical value for a film extruded with BUR 1:3, thickness 40 µm.

Actual properties are typical and may vary depending upon operating conditions and additive package.

EXTRUSION CONDITIONS

Riblene® FL34 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® FL34 is supplied in pellet form. This material may readily be conveyed and bulk-fed through equipment designed for conventional pelletised 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 be practised throughout your facility.

Before using this product, read and understand the current POLIMERI EUROPA Safety Data Sheet for this product.

AVAILABILITY

Contact the POLIMERI EUROPA sales office nearest to you regarding availability and your specific application requirements.

FOOD CONTACT STATUS

Riblene® FL34 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.

TECHNICAL SERVICE

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