Riblene® FM 34 I

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FM 34 I is a low density polyethylene (LDPE), additivated with slip (erucamide) and antiblocking agent, suitable for blown film extrusion. Riblene FM 34 I is characterised by a good balance between processability, mechanical and optical properties.
Films manufactured by Riblene FM 34 I are easily heat shrinkable.
Main Applications
Riblene FM 34 I is recommended for general blown film applications, for the production of thin trasparent film, for garment and newspaper packaging, freezer bags and blend.
Riblene FM 34 I thanks its properties is also recommended for the production of high purity film.

General Information			
Additive	Erucamide Lubricating Additive Anti-caking agent		
Features	High purity Low density smoothness Optical Anti-caking property Workability, good Good thermal shrinkage Compliance of Food Exposure		
Uses	Blown Film Films Mixing Shrinkable film		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.923	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Dynamic, Blown Film)	0.11		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	40	µm	
Film Thickness - Recommended / Available	18 to 50 µm		

Tensile Modulus			ISO 527-3
1% secant, MD: 40 µm, blown film	190	MPa	ISO 527-3
1% secant, TD: 40 µm, blown film	200	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 40 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	21.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	300	%	ISO 527-3
TD: Broken, 40 µm, blown film	600	%	ISO 527-3
Dart Drop Impact [1] (40 µm, Blown Film)	110	g	ISO 7765-1/A
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 40.0 µm	80.0	kN/m	ISO 6383-2
TD : 40.0 µm	55.0	kN/m	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	93.0	°C	ISO 306/A
Melting Temperature	113	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 40.0 µm, Blown Film)	72		ASTM D2457
Haze (40.0 µm, Blown Film)	6.0	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 - 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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