

Riblene® FC 40

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FC 40 is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion.

Riblene FC 40 is characterised by a high melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene FC 40 are easily heat shrinkable and characterised by high rigidity, good mechanical and excellent optical properties.

Main Application

Riblene FC 40 is recommended for the production of shrink film for medium and high loads characterized by high rigidity, clarity and gloss.

General Information			
Features	Food Contact Acceptable		
	Good Heat Shrinkability		
	Good Melt Strength		
	High Clarity		
	High Gloss		
	High Molecular Weight		
	High Rigidity		
	Low Density		
	Opticals		
Uses	Film		
	Shrink Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	70	µm	
Film Thickness - Recommended / Available	40 to 150 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 70 µm, Blown Film	230	MPa	
1% Secant, TD : 70 µm, Blown Film	240	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 70 µm, Blown Film	12.0	MPa	

TD : Yield, 70 μm, Blown Film	12.0	MPa	
MD : Break, 70 μm, Blown Film	28.0	MPa	
TD : Break, 70 μm, Blown Film	28.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 70 μm, Blown Film	550	%	
TD : Break, 70 μm, Blown Film	650	%	
Dart Drop Impact ¹ (70 μm, Blown Film)	290	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 70.0 μm	35.0	kN/m	
TD : 70.0 μm	50.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	102	°C	ISO 306/A
Melting Temperature	116	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 70.0 μm, Blown Film)	70		ASTM D2457
Haze (70.0 μm, Blown Film)	7.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	F50		
2.	Blown Film		

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