Riblene® FC 40 F

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FC 40 F is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion.
Riblene FC 40 F is characterised by a high melt strength leading to a good bubble stability during extrusion.
Main Application
Riblene FC 40 F 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 Melt Strength High Clarity High Gloss High Molecular Weight High Rigidity Low Density		
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/cm³	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		

Recommended distributors for this material

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