Riblene® FC 39 D

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FC 39 D is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion.
Riblene FC 39 D is characterised by a high melt strength leading to a good bubble stability during extrusion.
Films manufactured by Riblene FC 39 D are easily heat shrinkable and characterised by high rigidity, good mechanical and optical properties.
Main Application
Riblene FC 39 D is recommended for the production of medium rigidity shrink film characterized by good clarity and gloss.

General Information			
Features	Food Contact Acceptable Good Heat Shrinkability Good Melt Strength High Molecular Weight High Rigidity Low Density Medium Clarity Medium Gloss 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	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	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	180	MPa	
1% Secant, TD : 70 µm, Blown Film	190	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 70 µm, Blown Film	11.0	MPa	

TD : Yield, 70 µm, Blown Film	11.0	MPa	
MD : Break, 70 µm, Blown Film	28.0	MPa	
TD : Break, 70 µm, Blown Film	26.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 70 µm, Blown Film	450	%	
TD : Break, 70 µm, Blown Film	600	%	
Dart Drop Impact [1] (70 µm, Blown Film)	310	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 70.0 µm	30.0	kN/m	
TD : 70.0 µm	45.0	kN/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	93.0	°C	ISO 306/A
Melting Temperature	114	°C	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 70.0 µm, Blown Film)	65		ASTM D2457
Haze (70.0 µm, Blown Film)	8.0	%	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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