

Riblene® FC 20

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FC 20 is a high molecular weight low density polyethylene resin (LDPE) suitable for blown film extrusion. Riblene FC 20 is characterised by a high melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene FC 20 are easily heat shrinkable and characterised by optimum mechanical properties.

Main Application

Riblene FC 20 is recommended for the production of greenhouse film, heavy duty shrink film and industrial bags.

General Information			
Features	Food Contact Acceptable Good Heat Shrinkability Good Melt Strength High Molecular Weight Low Density		
Uses	Bags Film Heavy-duty Bags Industrial Applications Shrink Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	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	60 to 250 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 70 µm, Blown Film	160	MPa	
1% Secant, TD : 70 µm, Blown Film	180	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 70 µm, Blown Film	10.0	MPa	
TD : Yield, 70 µm, Blown Film	11.0	MPa	

MD : Break, 70 μm, Blown Film	25.0	MPa	
TD : Break, 70 μm, Blown Film	25.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 70 μm, Blown Film	400	%	
TD : Break, 70 μm, Blown Film	550	%	
Dart Drop Impact ¹ (70 μm, Blown Film)	290	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 70.0 μm	25.0	kN/m	
TD : 70.0 μm	25.0	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	112	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 70.0 μm, Blown Film)	30		ASTM D2457
Haze (70.0 μm, Blown Film)	20	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	F50		
2.	Blown Film		

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