

Riblene® FL 20 R

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FL 20 R is a low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FL 20 R is characterised by a good balance between processability and mechanical properties.

Films manufactured by Riblene FL 20 R are easily heat shrinkable and have good optical properties.

Main Application

Riblene FL 20 R is recommended for general packaging film, for the production of low gauge and shrink film and for blend.

General Information			
Features	Food Contact Acceptable		
	Good Heat Shrinkability		
	Good Processability		
	Low Density		
	Opticals		
Uses	Blending		
	Film		
	Packaging		
	Shrink Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	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	40	µm	
Film Thickness - Recommended / Available	25 to 80 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 40 µm, Blown Film	160	MPa	
1% Secant, TD : 40 µm, Blown Film	180	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 40 µm, Blown Film	10.0	MPa	

TD : Yield, 40 µm, Blown Film	10.0	MPa	
MD : Break, 40 µm, Blown Film	25.0	MPa	
TD : Break, 40 µm, Blown Film	19.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 µm, Blown Film	300	%	
TD : Break, 40 µm, Blown Film	550	%	
Dart Drop Impact ¹ (40 µm, Blown Film)	190	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 40.0 µm	70.0	kN/m	
TD : 40.0 µm	45.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ISO 306/A
Melting Temperature	109	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	54		ASTM D2457
Haze (40.0 µm, Blown Film)	9.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

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