

# Riblene® FH 20

Low Density Polyethylene

Versalis S.p.A.

## Message:

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

Films manufactured by Riblene FH 20 are easily heat shrinkable and have good optical and mechanical properties.

### Main Application

Riblene FH 20 is recommended for general packaging film and for diapers.

General Information			
Features	Food Contact Acceptable Good Heat Shrinkability Good Processability Low Density Opticals		
Uses	Film Packaging Sanitary Products		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	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	30 to 100 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 40 µm, Blown Film	180	MPa	
1% Secant, TD : 40 µm, Blown Film	190	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 40 µm, Blown Film	10.0	MPa	
TD : Yield, 40 µm, Blown Film	11.0	MPa	
MD : Break, 40 µm, Blown Film	25.0	MPa	
TD : Break, 40 µm, Blown Film	22.0	MPa	

Tensile Elongation			ISO 527-3
MD : Break, 40 μm, Blown Film	350	%	
TD : Break, 40 μm, Blown Film	600	%	
Dart Drop Impact <sup>1</sup> (40 μm, Blown Film)	140	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 40.0 μm	80.0	kN/m	
TD : 40.0 μm	55.0	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	113	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 μm, Blown Film)	71		ASTM D2457
Haze (40.0 μm, Blown Film)	6.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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#### Recommended distributors for this material

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