

# ATTANE™ SL 4101G

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

ATTANE™SL 4101G ultra-low density polyethylene resin is used for blown film processing. This application requires a combination of excellent optical properties, tear resistance, impact resistance and very good heat sealing. The product also has very good kneading resistance. ATTANE SL4101G ultra-low density polyethylene resin contains slip agent and opening agent.

Application field:

diapers, pads, scouring pads, clothing

medical packaging

non-food and detergent bags

flap lining

snack food

fresh food packaging

frozen food

liquid food

Fresh and processed foods

industrial lining

Thin thickness industrial and consumer film

various heavy-duty packaging films

Complies with:

EU, No 10/2011

U.S. FDA FCN 424

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (2750 ppm)		
	Sliding agent (1000 ppm)		
Agency Ratings	FDA 21 CFR 176.170(c), Table 2.2		
	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	0.912	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>2</sup> (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.15		ASTM D1894
With self-dynamics	0.12		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Modulus			ISO 527-3
MD : 40 µm	130	MPa	ISO 527-3
TD : 40 µm	154	MPa	ISO 527-3

Tensile Stress			ISO 527-3
MD: Yield, 40 μm	6.50	MPa	ISO 527-3
TD: Yield, 40 μm	6.20	MPa	ISO 527-3
MD: Break, 40 μm	32.0	MPa	ISO 527-3
TD: Break, 40 μm	30.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 40 μm	680	%	ISO 527-3
TD: Break, 40 μm	800	%	ISO 527-3
Dart Drop Impact (40 μm)	2700	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 40 μm	600	g	ASTM D1922
TD : 40 μm	800	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature <sup>3</sup>	92.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 40.0 μm)	45		ASTM D2457
Haze (40.0 μm)	8.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	
Extrusion instructions			
吹塑薄膜挤出的制造条件: 模具间隙 1.6 至 2.5 mm 熔体温度:190 至 240°C 放大比:1.5 比 3.5 建议的厚度范围:10 至 80 μm			
NOTE			
1.	Compression molded sample		
2.	Compression molded sample		
3.	Compression molded sample		

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