

ATTANE™ SL 4102G

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

Message:

ATTANE™SL 4102G ultra-low density linear polyethylene copolymer is an ethylene-octene copolymer. This product is specially used for the production of blown film. It requires good processing performance, excellent sealing performance, thermal adhesion and toughness, and has excellent optical properties.

Application field:

Diapers, spacers, wipes, clothing

medical packaging

Packaging bags for non-food and detergent

packaging materials for fresh-cut agricultural products

frozen food

display packaging

liquid food

Fresh and processed foods

Industrial lining materials

Various heavy-duty films

Meet the following regulatory requirements:

EU,No 10/2011

U.S. Food and Drug Administration U.S. FDA 21 CFR 176.170(c)

U.S. Food and Drug Administration U.S. FDA FCN 424

please refer to the regulations for detailed information.

General Information			
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 ¹	0.905	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ² (Shore D)	40		DIN 53505
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
secant modulus			ASTM D882
MD : 40 µm	90.0	MPa	ASTM D882
TD : 40 µm	95.0	MPa	ASTM D882
Tensile Stress			ISO 527-3
MD: Yield, 40 µm	5.70	MPa	ISO 527-3
TD: Yield, 40 µm	5.40	MPa	ISO 527-3
MD: Break, 40 µm	33.0	MPa	ISO 527-3
TD: Break, 40 µm	30.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Break, 40 μm	670	%	ISO 527-3
TD: Break, 40 μm	790	%	ISO 527-3
Dart Drop Impact (40 μm)	> 850	g	ISO 7765-1/B
Elmendorf Tear Strength			ASTM D1922
MD : 40 μm	660	g	ASTM D1922
TD : 40 μm	800	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ³	84.0	°C	ASTM D1525
Melting Temperature	122	°C	DSC
Peak Crystallization Temperature (DSC)	99.0	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 40.0 μm)	78		ASTM D2457
Haze (40.0 μm)	7.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	
Extrusion instructions			

吹塑薄膜挤出的制造条件:
熔体温度:190 至 240°C(理想值:215-225°C)
放大比:1.5:1 至 3.5:1
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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