

ATTANE™ SL 4100G

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

Message:

ATTANE™SL 4100G ultra-low density polyethylene resin is used to produce blown films. This type of film requires comprehensive excellent optical properties, excellent tear strength and impact strength, and excellent sealing performance. The product also has excellent flexural cracking resistance.

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	0.912	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Modulus			ISO 527-3
2% secant, MD: 40 µm	120	MPa	ISO 527-3
2% secant, TD: 40 µm	135	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	31.0	MPa	ISO 527-3
TD: Break, 40 µm	30.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 40 µm	640	%	ISO 527-3
TD: Break, 40 µm	760	%	ISO 527-3
Dart Drop Impact (40 µm)	850	g	ISO 7765-1/B
Elmendorf Tear Strength			ASTM D1922
MD : 40 µm	690	g	ASTM D1922
TD : 40 µm	850	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ³	92.0	°C	ASTM D1525
Melting Temperature ⁴	122	°C	DSC

Optical	Nominal Value	Unit	Test Method
Gloss (20°, 40.0 μm)	75		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(理想值:215-225°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
4.	Compression molded sample

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