

# ATTANE™ 4606GC

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

ATTANE™ 4606GC Ultra Low Density Ethylene/Hexene Copolymer is a skin layer in cast film offers excellent low temperature hot tack properties combined with outstanding tear and impact strength. In stretch film applications, ATTANE™ 4606GC Ultra Low Density Ethylene/Hexene Copolymer Resin exhibits excellent stretchability as well as good physical and cling properties. ATTANE™ 4606GC Ultra Low Density Ethylene/Hexene Copolymer Resin can also be utilised in blown film coextrusion where it is combined with other resins having excellent bubble stability allowing ATTANE™ 4606GC Ultra Low Density Ethylene/Hexene Copolymer Resin to be used as a sealant in multilayer film structures.

### Applications:

Cling layer in cast stretch film

Sealants in cast and blown films

### Complies with:

Europe Commission Regulation (EU), No 10/2011

U.S. FDA FCN 741

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA FCN 741		
	Europe No 10/2011		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.911	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.3	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Film Puncture Energy (23 µm)	2.80	J	ASTM D5748
Film Puncture Force (23 µm)	35.0	N	ASTM D5748
Tensile Stress			ISO 527-3
MD: Yield, 23 µm	4.80	MPa	ISO 527-3
TD: Yield, 23 µm	4.50	MPa	ISO 527-3
MD: Break, 23 µm	28.0	MPa	ISO 527-3
TD: Break, 23 µm	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 23 µm	450	%	ISO 527-3
TD: Break, 23 µm	600	%	ISO 527-3
Dart Drop Impact (23 µm)	180	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 23 µm	200	g	ASTM D1922
TD : 23 µm	360	g	ASTM D1922
Unstretched bond	100	g	ASTM D4649

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 µm)	92		ASTM D2457
Haze (23.0 µm)	0.70	%	ASTM D1003

#### Additional Information

对于在 Lab Collin 生产线上采用 15 米/分冷却辊于 25°C 下生产的单层薄膜所测量的薄膜属性.

Extrusion	Nominal Value	Unit
Melt Temperature	190 - 260	°C

#### Extrusion instructions

铸造薄膜挤出的制造条件:

熔体温度:190 - 260 °C

建议的厚度范围:10 - 60 µm

脱离速度:150 - 300 米/分

冷却辊温度:20 - 60 °C

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