ATTANE™ 4607G

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

Message:

ATTANE™4607G ultra-low density polyethylene copolymer is used as a surface film in the cast film, which has excellent low-temperature thermal adhesion properties and excellent tear strength and impact strength. In tensile film applications, ATTANE™4607G ultra-low density polyethylene copolymer shows excellent tensile properties as well as good physical properties and adhesion properties. ATTANE™4607G ultra-low density polyethylene copolymer can be used in the co-extrusion process of blown film. In this process, the excellent film bubble stability of the product after mixing with other resins makes ATTANE™4607G ultra-low density polyethylene copolymer can be used as a sealant in thin film multilayer structures.
Application field:
Adhesive layer in cast stretched film
Sealant in cast film and blown film
Meet the following regulatory requirements:
EU, No 10/2011
U.S. Food and Drug Administration U.S. FDA FCN 741
please refer to the regulations for detailed information.

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	0.904	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	23	µm	
Film Puncture Energy (23 µm)	5.00	J	Internal method
Film Puncture Force (23 µm)	48.0	N	Internal method
Tensile Stress			ISO 527-3
MD: Yield, 23 µm	4.30	MPa	ISO 527-3
TD: Yield, 23 µm	3.60	MPa	ISO 527-3
MD: Break, 23 µm	33.0	MPa	ISO 527-3
TD: Break, 23 µm	23.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 23 µm	500	%	ISO 527-3
TD: Break, 23 µm	630	%	ISO 527-3
Dart Drop Impact (23 µm)	180	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 23 µm	190	g	ASTM D1922
TD : 23 µm	390	g	ASTM D1922
Unstretched bond	130	g	ASTM D4649

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	72.0	°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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China