ATTANE™ 4606G

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

Message:

ATTANE™4606G ultra-low density polyethylene copolymer is used as the surface layer in the cast film, which has excellent low-temperature thermal adhesion properties, and has excellent tear strength and impact strength. In the processing of stretched films, ATTANE™4606G ultra-low density polyethylene copolymer has excellent stretchability, good physical properties and self-adhesive properties. ATTANE™4606G ultra-low density polyethylene copolymer can be used for co-extrusion processing of blown films. In this processing, ATTANE™4606G ultra-low density polyethylene copolymer is used as a heat seal layer in a multilayer film structure, and is co-extruded with other resins with excellent film bubble stability.
Remarks: When unmodified is applied to the food contact field, ATTANE™4606G ultra-low density polyethylene copolymer meets the regulatory requirements for contact with food substances (FCN) under the U.S. Federal Food, Drug and Cosmetic Act, and its market access notice FCN 741 has been effective since September 28, 2007. The food contact certification notice allows the product to be used as an article or component in the production of articles in contact with food. These food types are described in the U.S. Food and Drug Administration Regulation 21 CFR § 176.170(c) Table -2 of the use conditions A to H. The composition of the product meets the regulatory requirements of EU Directive 2002/72/EC on food contact. Please contact your nearest Dow representative for proof of compliance with the Food Contact Act. Users remain responsible for determining whether the use of their products complies with all relevant regulations.
Application field:
Self-adhesive layer in cast stretched film
Heat seal in cast and blown films

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/cm³	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

Recommended distributors for this material

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