

AFFINITY™ SL 8110G

Polyolefin Plastomer
The Dow Chemical Company

Message:

AFFINITY™The SL 8110G polyolefin plastomer was prepared using INSITE™technology.

AFFINITY SL 8110G polyolefin plastomer has been used in blow-molded stretch film processing, and is used as a surface material when co-extruding with other resins. It has excellent elongation and self-adhesive properties as well as good physical properties.

due to its low melting temperature, AFFINITY SL 8110G is suitable for batch production of packaging bags.

when applied to the food contact field without modification, the resin meets the regulatory requirements for contact food substances (FCN) under the federal food, drug and cosmetic act of the United States, and its market access notice has been effective from October 7, 2004 according to the FCN 424. 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 conforms to the provisions of EU Directive 2002/72/EC on contact with food. Please contact your nearest Dow representative for proof of compliance with the Food Contact Act. The purchaser remains responsible for determining whether the use of its products complies with all relevant regulations.

Application field:

Self-adhesive layer in blow-molded stretched and pre-stretched films

batch production of packaging bags

General Information			
Agency Ratings	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.875	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Energy (20 µm)	41.6	J	ASTM D5748
Film Puncture Force (20 µm)	170	N	ASTM D5748
Tensile Stress			ISO 527-3
MD: Break, 20 µm	30.0	MPa	ISO 527-3
TD: Break, 20 µm	18.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 20 µm	260	%	ISO 527-3
TD: Break, 20 µm	830	%	ISO 527-3
Dart Drop Impact (20 µm)	260	g	ISO 7765-1/A
Unstretched bond	100	g	ASTM D5458
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	56.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 µm)	75		ASTM D2457
Haze (20.0 µm)	3.7	%	ISO 14782

Extrusion	Nominal Value	Unit
Melt Temperature	210	°C
Extrusion instructions		

吹塑薄膜的制造条件:

螺杆尺寸:45 mm

模具间隙:1.5 mm

熔体温度:210 °C

输出:模具周长的 15 磅/小时/英寸

放大比:2.5

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