AFFINITY™ PL 1888G

Polyolefin Plastomer

The Dow Chemical Company

Message:

AFFINITY* PL 1888G Polyolefin Plastomer for Packaging films is used for high speed packaging applications requiring low seal initiation temperature and good machinability (low consistent coefficient of friction and low block force). This resin is designed to give a COF of < 0.2 for an ~1.0 mil sealant layer in a coextruded film and run fast and trouble-free on most extrusion equipment, including blown film dies equipped with narrow die gaps.

For use in monolayer films and as the sealant layer in multilayer films

For fresh-cut produce, meat, cheese, and other high speed packaging applications requiring good machinability

Fast processing on narrow die gaps

Complies with:

U.S. FDA FCN 424

General Information

EU, No 10/2011

Consult the regulations for complete details.

Additive	Processing aid		
	Anti-caking agent (3000 ppm)		
	Sliding agent (1500 ppm)		
Agency Ratings	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
	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)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	< 0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	μm	
Film Puncture Energy (51 μm)	5.99	J	Internal method
Film Puncture Force (51 μm)	67.2	N	Internal method
Film Puncture Resistance (51 µm)	15.6	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 51 μm	70.2	MPa	ASTM D882
2% secant, TD: 51 μm	68.7	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	5.92	MPa	ASTM D882

TD: Yield, 51 μm	5.98	MPa	ASTM D882
MD: Fracture, 51 µm	49.3	MPa	ASTM D882
TD: Fracture, 51 µm	39.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	600	%	ASTM D882
TD: Fracture, 51 µm	570	%	ASTM D882
Dart Drop Impact (51 µm)	> 830	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 51 μm	430	g	ASTM D1922
TD : 51 μm	720	g	ASTM D1922
Seal Initiation Temperature ¹ (51 μm)	80.0	°C	Internal method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525
Melting Temperature (DSC)	98.0	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 μm)	81		ASTM D2457
Clarity ² (50.8 µm)	95.0		ASTM D1746
Haze (50.8 μm)	3.4	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	221 - 232	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆类型:改良 LDPE 或中等工作阻隔

模具间隙:70 密尔 (1.8 mm)

熔体温度:430-450°F (221-232°C)

放大比:2.5:1

1.

2.

Achieve a temperature of 2 psig (8.8 N/25.4mm) heat seal strength. Heat seal strength, Topwave HT tester 0.5 S holding pressure, 40 psi pressure, pulling speed on the Instron 10 inches/minute (250 mm/s).

The ASTM method is under

development.

BYK-Gardner-Hazeguard Plus has

been utilized.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

