

AFFINITY™ PL 1881G

Polyolefin Plastomer

陶氏塑料

PROSPECTOR®

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Technical Data

Product Description

AFFINITY* PL 1881G Polyolefin Plastomer (POP) is produced via INSITE* Technology. It is designed for a variety of demanding packaging applications, including high-speed form-fill-seal products.

- Excellent ultimate hot tack strength
- Low temperature sealability
- Ability to seal through contamination
- Outstanding optics

Complies with:

- U.S. FDA FCN 424
- Canadian HPFB No Objection (with limitations)
- EU, No 10/2011

Consult the regulations for complete details.

General

Material Status	• 已商用 : 当前有效		
资料 ¹	• Technical Datasheet		
搜索 UL 黄卡	• 陶氏塑料		
Availability	• 北美洲 • 拉丁美洲	• 欧洲 • 亚太地区	
Additive	• 抗结块剂: 2500 ppm	• 增滑剂: 750 ppm	
Agency Ratings	• FDA FCN 424	• HPFB (加拿大) No Objection	• 欧洲 No 10/2011
Forms	• 粒子		
Processing Method	• 吹塑薄膜		

Physical

	额定值 单位制	测试方法
Density / Specific Gravity	0.904 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 g/10 min	ASTM D1238

Mechanical

	额定值 单位制	测试方法
Coefficient of Friction (与自身 - 动态)	0.15	ASTM D1894

Films

	额定值 单位制	测试方法
Film Thickness - Tested	51 µm	
Film Puncture Energy (51 µm)	8.09 J	Internal Method
Film Puncture Force (51 µm)	82.3 N	Internal Method
Film Puncture Resistance (51 µm)	21.9 J/cm ³	Internal Method
Secant Modulus		ASTM D882
2% 正割, MD : 51 µm	97.4 MPa	
2% 正割, TD : 51 µm	96.9 MPa	
Tensile Strength		ASTM D882
MD : 屈服, 51 µm	8.07 MPa	
TD : 屈服, 51 µm	7.17 MPa	
MD : 断裂, 51 µm	45.4 MPa	
TD : 断裂, 51 µm	42.5 MPa	
Tensile Elongation		ASTM D882
MD : 断裂, 51 µm	590 %	
TD : 断裂, 51 µm	630 %	
Dart Drop Impact (51 µm)	> 830 g	ASTM D1709B
Elmendorf Tear Strength ³		ASTM D1922
MD : 51 µm	560 g	
TD : 51 µm	730 g	
Seal Initiation Temperature ⁴ (51 µm)	85.0 °C	Internal Method
阻塞力	70 g	ASTM D3354-89



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Thermal	额定值 单位制	测试方法
Vicat Softening Temperature	86.0 °C	ASTM D1525
Melting Temperature (DSC)	100 °C	Internal Method

Optical	额定值 单位制	测试方法
Gloss (20°, 50.8 µm)	112	ASTM D2457
Clarity (50.8 µm)	83.0	ASTM D1746
Haze (50.8 µm)	3.20 %	ASTM D1003

Extrusion	额定值 单位制
Melt Temperature	221 °C

Extrusion Notes

吹塑薄膜的制造条件：

- 螺杆尺寸：2.5 英寸 (63.5 mm)；24:1 L/D
- 螺杆类型：DSB II
- 模具间隙：70 密尔 (1.8 mm)
- 熔体温度：430°F (221°C)
- 输出：模具周长的 6 磅/小时/英寸
- 模具直径：6 英寸
- 放大比：2.5:1
- 螺杆速度：40 rpm

备注

¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

² 一般属性：这些不能被视为规格。

³ 改性过的矩形测件。

⁴ 实现 2 磅/英寸 (8.8 N/25.4 mm) 热封强度的温度。

热封强度，Topwave HT 测试仪 0.5 S 保压，40 psi 压力，拉动速度 10 英寸/分 (250 mm/秒)。



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购买地点

供应商

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电话: +1-800-258-2436 (Americas); 00800-3-694-6367 (Europe, Middle East, Africa, and India); +800-7776-7776 (Asia Pacific)

Web: <http://www.dow.com>

分销商

Entec Polymers

电话: 800-375-5440

Web: <http://www.entecpolymers.com/>

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