



AFFINITY™ SL 8110G

Polyolefin Plastomer

Overview

AFFINITY™ SL 8110G Polyolefin Plastomer is a resin produced using INSITE™ Technology.

AFFINITY SL 8110G Polyolefin Plastomer has been designed for blown stretch films as a skin layer in coextrusion with other resins. It exhibits excellent stretchability and cling properties as well as good physical properties.

Due to its low melting point, AFFINITY SL 8110G is well suited for applications in batch inclusion bag applications.

Applications:

- Cling layer in blown stretch and preoriented films.
- Batch inclusion bags.

Complies with:

- U.S. FDA FCN 424

Consult the regulation for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.875 g/cm ³	0.875 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	20 µm	
Film Puncture Energy (0.79 mil (20 µm))	368 in·lb	41.6 J	ASTM D5748
Film Puncture Force (0.79 mil (20 µm))	38.2 lbf	170 N	ASTM D5748
Tensile Stress			ISO 527-3
MD : Break, 0.79 mil (20 µm)	4350 psi	30.0 MPa	
TD : Break, 0.79 mil (20 µm)	2610 psi	18.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 0.79 mil (20 µm)	260 %	260 %	
TD : Break, 0.79 mil (20 µm)	830 %	830 %	
Dart Drop Impact (0.79 mil (20 µm))	260 g	260 g	ISO 7765-1/A
Unstretched Cling	100 g	100 g	ASTM D5458
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	133 °F	56.0 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 0.787 mil (20.0 µm))	75	75	ASTM D2457
Haze (0.787 mil (20.0 µm))	3.70 %	3.70 %	ISO 14782
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	410 °F	210 °C	

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 45 mm
- Die Gap: 1.5 mm
- Melt Temperature: 210 °C
- Output: 15
- Blow-up Ratio: 2.5

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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