Technical Information

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/cm³	0.875	g/cm³	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

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