



PRIMACOR™ 1430

SK Global Chemical - Ethylene Acrylic Acid Copolymer

Sunday, November 3, 2019

General Information

Product Description

PRIMACOR™ 1430 is an ethylene acrylic acid copolymer that provides good sealability, hot tack and excellent adhesion to polar (foil, nylon, etc.) materials. It also provides excellent toughness, clarity and tear resistance.

- Adhesive layer of sealant layer in flexible packaging structures
- For blown or cast film extrusion
- Used where adhesion to nylon or foil is desired

Complies with:

- U.S. FDA 21 CFR 177.1310(a)(1)
- EU, No 10/2011

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1310 (a) 1	
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.932		ASTM D792
Density	0.930	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Comonomer Content ²	9.7	%	Internal Method

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield, Compression Molded)	1110	psi	ASTM D638
Tensile Stress (Yield, Compression Molded)	1110	psi	ISO 527-2/508
Tensile Strength ³ (Break, Compression Molded)	2830	psi	ASTM D638
Tensile Stress (Break, Compression Molded)	2830	psi	ISO 527-2/508
Tensile Elongation ³ (Break, Compression Molded)	580	%	ASTM D638
Tensile Strain (Break, Compression Molded)	580	%	ISO 527-2/508

Films	Nominal Value	Unit	Test Method
Tensile Strength - MD (Yield, 2.0 mil)	1510	psi	ASTM D882
Tensile Strength - TD (Yield, 2.0 mil)	1480	psi	ASTM D882
Tensile Stress			ISO 527-3
MD : Yield, 2.0 mil	1510	psi	
TD : Yield, 2.0 mil	1480	psi	
Tensile Strength - MD (Break, 2.0 mil)	4430	psi	ASTM D882
Tensile Strength - TD (Break, 2.0 mil)	4490	psi	ASTM D882

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Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD : Break, 2.0 mil	4430	psi	
TD : Break, 2.0 mil	4490	psi	
Tensile Elongation - MD (Break, 2.0 mil)	420	%	ASTM D882
Tensile Elongation - TD (Break, 2.0 mil)	470	%	ASTM D882
Tensile Elongation			ISO 527-3
MD : Break, 2.0 mil	420	%	
TD : Break, 2.0 mil	470	%	
Elmendorf Tear Strength - MD ² (2.0 mil)	470	g	ASTM D1922
Elmendorf Tear Strength - TD ² (2.0 mil)	730	g	ASTM D1922
Elmendorf Tear Strength ²			ISO 6383-2
MD : 2.0 mil	470	lbf	
TD : 2.0 mil	730	lbf	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	169	°F	ASTM D1525
Vicat Softening Temperature	169	°F	ISO 306
Melting Temperature (DSC)	205	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 2.00 mil)	74		ASTM D2457
Haze			
2.00 mil	4.00	%	ASTM D1003
2.00 mil	4.00	%	ISO 14782

Processing Information

Extrusion Notes

Fabrication Conditions For Extrusion Coating Film:

Equipment used to process this resin should be constructed of corrosion resistant materials. Dies and adapters are recommended to be stainless steels and/or duplex chrome or nickel plated.

- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Type: Single Flight with Maddock Mixer
- Die Gap: 40 mil (1.0 mm)
- Melt Temperature: 384°F (196°C)
- Output: 6 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5:1
- Frost Line Height: 29 in. (737 mm)

Notes

¹ Typical properties: these are not to be construed as specifications.

² Comonomer content measured by a proprietary method that has equivalent accuracy as compared to ASTM D 4094.

³ 20 in/min