PRIMACOR™ 1430

Copolymer

Introduction

PRIMACOR™ 1430 Copolymer 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.

PRIMACOR™ 1430 Copolymer exhibits:

- 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:

- US. FDA 21 CFR 177.1310(a)(1)
- EU. No 10/2011

Additives:

- Antiblock: No
- Slip: No

Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Density	0.930 g/cm^3	0.930 g/cm^3	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	5.0 g/10min	5.0 g/10min	ASTM D1238 ISO 1133
	Comonomer Contents[1]	9.7 %	9.7 %	SK Method
	Vicat Softening Temperature	169 °F	76.1 °C	ASTM D1525 ISO 306
	Melting Temperature (DSC)	205 °F	96.1 °C	SK Method
Mechanical Properties	Tensile Strength at Yield[2] (Compression Molded)	1110 psi	7.67 MPa	ASTM D638 ISO 527-2/508
	Tensile Strength at Break[2] (Compression Molded)	2830 psi	19.5 MPa	ASTM D638 ISO 527-2/508
	Tensile Elongation at Break[2] (Compression Molded)	580 %	580 %	ASTM D638 ISO 527-2/508

			Nominal Value (English)	Nominal Value (SI)	Test Method
Film Properties	Film Thickness		2.0 mil	50.8 μm	ASTM D374
	Haze		4.0 %	4.0 %	ASTM D1003 ISO 14782
	Gloss (45°)		74	74	ASTM D2457
	Elmendorf Tear Strength	MD	470 g	470 g	ASTM D1922 ISO 6383-2
		TD	730 g	730 g	
	Tensile Strength at Yield	MD	1510 psi	10.4 MPa	ASTM D882 ISO 527-3
		TD	1480 psi	10.2 MPa	
	Tensile Strength at Break	MD	4430 psi	30.6 MPa	ASTM D882 ISO 527-3
		TD	4490 psi	31.0 MPa	
	Tensile Elongation at Break	MD	420 %	420 %	ASTM D882 ISO 527-3
		TD	470 %	470 %	

Extrusion Condition[3]

- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D; Single Flight with Maddock Mixer
- Die Gap: 40 mil (1.0 mm)
- Die Diameter: 6 in. (152.4 mm)
- Melt Temperature: 385 °F (196 °C)
- Output: 6 lb/hr/in. of Die Circumference (1.07 kg/hr/cm of Die Circumference)
- Blow-up Ratio: 2.5:1
- Frost Line Height: 29 in. (737 mm)

[1] Comonomer content measured by a SK proprietary method that has equivalent accuracy as compared to ASTM D 4094.
[2] 20 in/min (510 mm/min)
[3] 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.

Notes
These are ***typical values*** and are ***not be construed as specifications***. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.