PRIMACOR™ 1410

Copolymer

Introduction

PRIMACOR™ 1410 Copolymer is an ethylene acrylic acid copolymer suitable for monolayer or coextrusion blown films. PRIMACOR™ 1410 Copolymer has been specifically designed for use as a heat seal or adhesive layer in composite films.

PRIMACOR™ 1410 Copolymer exhibits:

- Excellent hot tack and sealability
- Excellent toughness and strength
- Excellent crack resistance
- Insensitivity to moisture
- Good optical properties

Applications:

- Specialty and skin packaging
- Multilayer films

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	0.938 g/cm^3	0.938 g/cm^3	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	1.5 g/10min	1.5 g/10min	ASTM D1238 ISO 1133
	Comonomer Contents[1]	9.7 %	9.7 %	SK Method
	Vicat Softening Temperature	178 °F	81.1 °C	ASTM D1525 ISO 306
	Melting Temperature (DSC)	208 °F	97.8 °C	SK Method
Film Properties	Film Thickness	2.0 mil	50.8 μm	ASTM D374
	Dart Impact Strength	580 g	580 g	ASTM D1709B ISO 7765-1/B
	Haze	5.8 %	5.8 %	ASTM D1003 ISO 14782
	Gloss (45°)	65	65	ASTM D2457

			Nominal Value (English)	Nominal Value (SI)	Test Method
Film Properties	Elmendorf Tear Strength	MD	380 g	380 g	ASTM D1922 ISO 6383-2
		TD	510 g	510 g	
	Tensile Strength at Yield	MD	1710 psi	11.8 MPa	ASTM D882 ISO 527-3
		TD	1590 psi	10.9 MPa	
	Tensile Strength at Break	MD	5500 psi	37.9 MPa	ASTM D882 ISO 527-3
		TD	5530 psi	38.1 MPa	
	Tensile Elongation at Break	MD	400 %	400 %	ASTM D882 ISO 527-3
		TD	470 %	470 %	

Extrusion Condition[2]

- 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 ºF (196 ºC)
- 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] 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.

For additional sales, order and technical assistance

Customer Service Representative csr_skgc@sk.com

Asia Pacific
Shanghai (Head Quarter) +86-21-6197-0243
Shanghai (TS&D) +86-21-6197-0128
Seoul +82-2-2121-6745
Tokyo +81-3-3591-0343

Southeast Asia/Australia
Singapore +65-6671-1566

America
Houston +1-713-850-0005

Europe
Frankfurt +49-6967738103
Madrid +34-910477688

Middle East/Africa
Dubai +971-4-252-5277

Revised: Oct. 31st, 2017