Technical Information

PRIMACOR™ 3150

Copolymer

Introduction

PRIMACOR™ 3150 Copolymer is an ethylene acrylic acid copolymer which has been specifically designed by SK for use as an adhesive or sealant layer in extrusion/coextrusion coating and lamination.

PRIMACOR™ 3150 Copolymer exhibits:

- Excellent adhesion to paper, paperboard, metals and polyethylenes
- Good heat sealability
- Good draw-down
- Excellent oil and grease resistance
- Insensitivity to moisture

Applications:

- Flexible packaging laminates
- Cost effective sealant or tie resin for foil-based structures

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	0.924 g/cm^3	0.924 g/cm^3	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	11 g/10min	11 g/10min	ASTM D1238 ISO 1133
	Comonomer Content[1]	3.0 %	3.0 %	SK Method
	Vicat Softening Temperature	192 °F	88.9 °C	ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	219 °F	104 °C	SK Method

		Nominal Value (English)	Nominal Value (SI)	Test Method
Mechanical Properties	Tensile Strength at Yield (Compression Molded)	1280 psi	8.79 Mpa	ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	1780 psi	12.3 Mpa	ASTM D638 ISO 527-2
	Tensile Elongation at Break (Compression Molded)	590 %	590 %	ASTM D638 ISO 527-2
Extrusion	Melt Temperature	500-554 °F	260-290 °C	-
	Minimum Coating Thickness	0.40 mil	10 μm	SK Method
	Minimum Coating Weight	6.0 lb/ream	9.8 g/m^2	SK Method
	Neck-in (550°F (288°C), 1.0 mil (25.4 μm))	2.5 in	63.5 mm	SK Method
Extrusion Condition[2]	• Screw Size: 3.5 in. (89 mm); 30:1 L/D • Die Gap: 20 mil (0.508 mm) • Die: 30 inch (762 mm) die deckled to 24 inches (609.6 mm) • Melt Temperature: 550 °F (288 °C) • Output: 250 lb/hr (113.4 kg/hr) • Air Gap: 6 in. (152 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.