PRIMACOR™ 3150

SK Global Chemical - Ethylene Acrylic Acid Copolymer

Sunday, November 3, 2019

General Information

Product Description

PRIMACOR™ 3150 is an ethylene acrylic acid copolymer designed for extrusion/coextrusion coating and laminating resin for flexible packaging applications. It provides excellent adhesion to metallic, paper and polyethylene substrates, and offers good draw- down, heat sealability and oil and grease resistance.

- For extrusion/coextrusion coating and laminating applications
- Adhesion to metallic, paper and polyethylene substrates
- Cost effective sealant or tie resin for foil-based structures
- Moisture insensitivity

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	• 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	• Extrusion Coating		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.926		ASTM D792
Density	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Comonomer Content [2]	3.0	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, Compression Molded)	1280	psi	ASTM D638
Tensile Stress (Yield, Compression Molded)	1280	psi	ISO 527-2
Tensile Strength (Break, Compression Molded)	1780	psi	ASTM D638
Tensile Stress (Break, Compression Molded)	1780	psi	ISO 527-2
Tensile Elongation (Break, Compression Molded)	590	%	ASTM D638
Tensile Strain (Break, Compression Molded)	590	%	ISO 527-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	192	°F	ASTM D1525
Vicat Softening Temperature	192	°F	ISO 306
Melting Temperature (DSC)	219	°F	Internal Method

Processing Information

Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	500 to 554	°F	

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Extrusion	Nominal Value	Unit	Test Method
Minimum Coating Thickness	0.40	mil	Internal Method
Minimum Coating Weight	6.0	lb/ream	Internal Method
Neck-in (550°F, 1.0 mil)	2.5	in	Internal Method

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: 3.5 in. (89 mm); 30:1 L/D
- Die Gap: 20 mil (0.508 mm)
- Die: 30 inch die deckled to 24 inches
- Melt Temperature: 550°F (288°C)
- Output: 250 lb/hr
- Air Gap: 6 in. (152 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.