

# 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

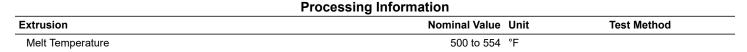
#### Complies with:

- 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	<ul> <li>Processing Aid: No</li> </ul>	Slip: No
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1310 (a	) 1
Forms	• Pellets		
Processing Method	<ul> <li>Extrusion Coating</li> </ul>		

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 <sup>2</sup>	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			





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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**



<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> Comonomer content measured by a proprietary method that has equivalent accuracy as compared to ASTM D 4094.