



PRIMACOR™ 3150 Copolymer

Overview 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 (b)
- EU, No 10/2011

Consult the regulations for complete details.

Additive • Antiblock: No • Slip: No • Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.924 g/cm ³	0.924 g/cm ³	ASTM D792 ISO 1183
Melt Index (190°C/2.16 kg)	11 g/10 min	11 g/10 min	ASTM D1238 ISO 1133
Comonomer Content	3.0 %	3.0 %	Dow Method ¹
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638 ISO 527-2
Yield, Compression Molded	1280 psi	8.79 MPa	
Break, Compression Molded	1780 psi	12.3 MPa	
Tensile Elongation			ASTM D638 ISO 527-2
Break, Compression Molded	590 %	590 %	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	192 °F	88.9 °C	ASTM D1525 ISO 306
Melting Temperature (DSC)	219 °F	104 °C	Dow Method
Extrusion	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature	500 to 554 °F	260 to 290 °C	
Minimum Coating Thickness	0.40 mil	10 µm	Dow Method
Minimum Coating Weight	6.0 lb/ream	9.8 g/m ²	Dow Method
Neck-in (550°F (288°C), 1.0 mil (25.4 µm))	2.5 in	63.5 mm	Dow 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

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Comonomer content measured by a DOW proprietary method that has equivalent accuracy as compared to ASTM D 4094.

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