



PRIMACOR™ 3003 Copolymer

Overview Melt Index: 7.8
Acrylic Acid Content: 6.5

PRIMACOR™ 3003 Copolymer is an ethylene acrylic acid copolymer which has been specifically designed by Dow for use as an adhesive or sealant layer in extrusion coating and extrusion lamination.

- PRIMACOR 3003 Copolymer exhibits:
- Excellent draw-down and edge stability.
 - Excellent organoleptic properties.
 - Excellent toughness and strength.
 - Outstanding stress crack and product resistance.
 - Excellent hot-tack and sealability.
 - Adhesion to paper, paperboard, metals and polyethylenes.
 - Insensitivity to moisture.

Note:
PRIMACOR 3003 Copolymer should comply with FDA regulation 177.1310 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications.
Please contact your nearest office regarding food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

- Applications:
- Flexible packaging laminates.
 - Liquid packaging board laminates.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm ³	0.935 g/cm ³	ASTM D792 ISO 1183
Melt Index (190°C/2.16 kg)	7.8 g/10 min	7.8 g/10 min	ISO 1133 ASTM D1238 ¹
Comonomer Content	6.5 %	6.5 %	Dow Method ²
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 2% Secant	18900 psi	130 MPa	ASTM D638 ISO 527-2
Tensile Strength			ASTM D638 ISO 527-2
Yield	1090 psi	7.50 MPa	
Break	2610 psi	18.0 MPa	
Tensile Elongation (Break)	590 %	590 %	ASTM D638 ISO 527-2
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Seal Initiation Temperature	194 °F	90.0 °C	Dow Method ³
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	194 °F	90.0 °C	ISO 306/A
Melting Temperature (DSC)	212 °F	100 °C	Dow Method
Extrusion	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature	500 to 554 °F	260 to 290 °C	
Minimum Coating Weight (554°F (290°C))	4.9 lb/ream	8.0 g/m ²	Dow Method
Neck-in (554°F (290°C))	1.8 in	4.6 cm	Dow Method ⁴

Notes

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

¹ As measured at the time of production.

² Comonomer content measured by a Dow proprietary method that has equivalent accuracy as compared to ASTM D 4094.

³ 25 g/m² coatings at 290°C set temperature.

⁴ at 100 m/min, 25 g/m² coatings

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