

PRIMACOR™ 3003

Copolymer

Introduction

PRIMACOR™ 3003 Copolymer is an ethylene acrylic acid copolymer which has been specifically designed by SK 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 environmental stress crack and product resistance
- Excellent hot-tack and sealability
- Adhesion to paper, paperboard, metals and polyethylenes
- Insensitivity to moisture

Applications:

- Flexible packaging laminates
- Liquid packaging board laminates

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	0.935 g/cm ³	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	7.8 g/10min	ASTM D1238 ISO 1133
	Comonomer Content ¹	6.5 %	SK Method
	Vicat Softening Temperature	194 °F	ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	212 °F	100 °C SK Method
Film Properties	Seal Initiation Temperature ²	194 °F	90.0 °C SK Method



	Nominal Value (English)	Nominal Value (SI)	Test Method
Mechanical Properties	Tensile Modulus - 2% Secant (Compression Molded)	18900 psi	130 MPa ASTM D638 ISO 527-2
	Tensile Strength at Yield (Compression Molded)	1090 psi	7.50 Mpa ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	2610 psi	18.0 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 Weight (554°F (290°C))	4.9 lb/ream	8.0 g/m ² SK Method
	Neck-in ³ (554°F (290°C))	1.8 in	45.7 mm SK Method

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

² 25 g/m² coatings at 290°C set temperature

³ at 100 m/min, 25 g/m² coatings

Notes

These are *typical values* and are *not be construed as specifications*. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.

