

# PRIMACOR™ 3002

## Copolymer

### Introduction

PRIMACOR™ 3002 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™ 3002 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
<b>Resin Properties</b>	Density	0.936 g/cm <sup>3</sup>	0.936 g/cm <sup>3</sup> ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	9.8 g/10min	9.8 g/10min ASTM D1238 ISO 1133
	Comonomer Content <sup>1</sup>	8.0 %	8.0 % SK Method
	Vicat Softening Temperature	180 °F	82.2 °C ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	212 °F	100 °C SK Method
<b>Film Properties</b>	Seal Initiation Temperature <sup>2</sup>	185 °F	85.0 °C SK Method
	Water Vapor Transmission Rate <sup>3</sup> 100°F (38°C), 90% RH	1.0 g·mil/100in <sup>2</sup> /atm/24hr	0.40 g·mm/m <sup>2</sup> /atm/24hr DIN 53122/2



	Nominal Value (English)	Nominal Value (SI)	Test Method
<b>Mechanical Properties</b>	Tensile Modulus - 2% Secant (Compression Molded)	16000 psi	110 MPa ASTM D638 ISO 527-2
	Tensile Strength at Yield (Compression Molded)	1020 psi	7.00 Mpa ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	2760 psi	19.0 Mpa ASTM D638 ISO 527-2
	Tensile Elongation at Break (Compression Molded)	570 %	570 % ASTM D638 ISO 527-2
	Durometer Hardness (Shore D) (Compression Molded)	53	53 ASTM D2240 ISO 868
<b>Extrusion</b>	Melt Temperature	500-554 °F	260-290 °C -
	Minimum Coating Weight (554°F (290°C))	3.7 lb/ream	6.0 g/m <sup>2</sup> SK Method
	Neck-in <sup>4</sup> (554°F (290°C))	1.4 in	35.6 mm SK Method

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

<sup>2</sup> 25 g/m<sup>2</sup> coatings at 290°C set temperature.

<sup>3</sup> Divide by coating weight in g/m<sup>2</sup> to obtain actual WVTR.

<sup>4</sup> at 100 m/min, 25 g/m<sup>2</sup> 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.

