

PRIMACOR™ 3004

Copolymer

Introduction

PRIMACOR™ 3004 Copolymer is an ethylene acrylic acid copolymer which has been specifically designed by SK for use as an adhesive or sealant layer in extrusion/coextrusion coating and lamination.

PRIMACOR™ 3004 Copolymer exhibits:

- Excellent draw-down and edge stability
- Adhesion to paper, paperboard, metals and polyethylenes
- High performance sealant or tie layer
- Excellent hot-tack and sealability
- Excellent seal through contamination
- Excellent product resistance
- Excellent toughness and strength
- Outstanding environmental stress crack and product resistance

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	0.938 g/cm ³	0.938 g/cm ³	ASTM D792 ISO 1183
	Melt Index (2.16 kg @190°C)	8.5 g/10min	8.5 g/10min	ASTM D1238 ISO 1133
	Comonomer Content ¹	9.7 %	9.7 %	SK Method

Technical Information

		Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Vicat Softening Temperature	178 °F	81.1 °C	ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	208 °F	98.0 °C	SK Method
Mechanical Properties	Tensile Strength at Yield (Compression Molded)	1150 psi	7.93 Mpa	ASTM D638 ISO 527-2
	Tensile Strength at Break (Compression Molded)	2550 psi	17.6 Mpa	ASTM D638 ISO 527-2
	Tensile Elongation at Break (Compression Molded)	600 %	600 %	ASTM D638 ISO 527-2
Extrusion	Melt Temperature	500-554 °F	260-290 °C	-
	Minimum Coating Thickness	0.40 mil	10 µm	SK Method
	Minimum Coating Weight	6.0 lb/ream	9.8 g/m ²	SK Method
	Neck-in ³ (550°F (288°C), 1.0 mil (25.4 µm))	2.0 in	50.8 mm	SK Method
Extrusion Condition²	<ul style="list-style-type: none"> Screw Size: 3.5 in. (89 mm); 30:1 L/D Die Gap: 20 mil (0.508 mm) Die: 30 inch (762 mm) die deckled to 24 inches (609.6 mm) Melt Temperature: 550 °F (288 °C) Output: 250 lb/hr (113.4 kg/hr) Air Gap: 6 in. (152 mm) 			

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

² 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.

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.

Technical Information

For additional sales, order and technical assistance

Customer Service Representative	cseurope@sk.com	csamericas@sk.com	
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