

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

Slip: No

Additives:

Antiblock: No

Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
	Density	0.938 g/cm ³	0.938 g/cm ³	ASTM D792 ISO 1183
Resin Properties	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
	Vicat Softening Temperature	178 °F	81.1 °C	ASTM D1525 ISO 306/A
	Melting Temperature (DSC)	208 °F	98.0 °C	SK Method



Tensile Strength at Yield (Compression Molded) Tensile Strength at Break (Compression Molded) Tensile Elongation at Break (Compression Molded)	1150 psi 2550 psi	7.93 Mpa 17.6 Mpa	ASTM D638 ISO 527-2 ASTM D638 ISO 527-2	
(Compression Molded) Tensile Elongation at Break	2550 psi	17.6 Mpa		
(Compression Motded)	600 %	600 %	ASTM D638 ISO 527-2	
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	
 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) 				
1	Melt Temperature Minimum Coating Thickness Minimum Coating Weight Neck-in ³ 550°F (288°C), 1.0 mil (25.4 µm)) Screw Size: 3.5 in. (89 Die Gap: 20 mil (0.508 Die: 30 inch (762 mm) Melt Temperature: 550 Output: 250 lb/hr (113	Melt Temperature 500-554 °F Minimum Coating Thickness 0.40 mil Minimum Coating Weight 6.0 lb/ream Neck-in ³ 2.0 in 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 Melt Temperature: 550 °F (288 °C)	Melt Temperature 500-554 °F 260-290 °C Minimum Coating Thickness 0.40 mil 10 μm Minimum Coating Weight 6.0 lb/ream 9.8 g/m² Neck-in³ 550°F (288°C), 1.0 mil (25.4 μm)) 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)	

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

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.

For additional sales, order and technical assistance

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Revised: Oct. 31st, 2017 Copyright SK global chemical

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.